

MODIFICATION HISTORY

MODEL NAME :P1100

SERVICE MANUAL

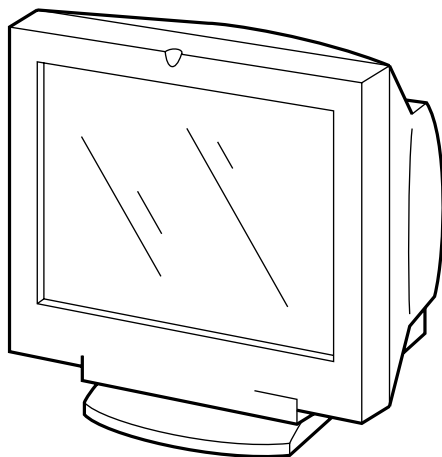
PARTS No. : 9-978-656-01

* Blue characters are linking.

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P1100

SERVICE MANUAL



U/C Model
AEP Model
Japan Model
AUS Model
UK Model
N.Hemisphere Model
Chinese Model

Chassis No. SCC-L22H-A

G1 CHASSIS

SPECIFICATIONS

Display	21-in	53.3-cm
Type	Color, FD Trinitron®	
Viewable Image Size (diagonal)	19.8-in	50.2-cm
Face Treatment	Antireflective and antistatic coating compliant with TCO 1999 requirements	
Maximum Weight (Unpacked)	70.4-lb	32.0-kg
Maximum Dimensions		
Height	19.9-in	50.6-cm
Depth	19.4-in	49.3-cm
Width	19.8-in	50.4-cm
Maximum Graphics Resolution	1920 × 1440 at 75Hz Refresh Rate	
Aperture Grille Pitch	P22, 0.24 mm	
Text Mode	720 × 400	
Horizontal Frequency	30 to 121 kHz	
Vertical Frequency	50 to 160 Hz	
Environmental Requirements	Temperature	
Operating Temperature	50 to 95°F	5 to 35°C
Storage Temperature	-22 to 140°F	-20 to 60°C

Humidity (Noncondensing)

Operating	20 to 80%
Nonoperating	10 to 90%
Power Source	90 - 132/195 - 255 VAC, 50-60 Hz
Power Consumption	< 160 Watts
Input Terminal	Two 15-pin D-type connectors

Color Display Values

CIE* Chromaticity Coordinates		
	x (+/- 0.030)	y (+/- 0.030)
Red	0.625	0.340
Blue	0.155	0.070
Green	0.280	0.605
White Point (9300 K)	0.281	0.311
Gamma: 2.6		

*Commission International d'Eclairage, 1931 Standard.

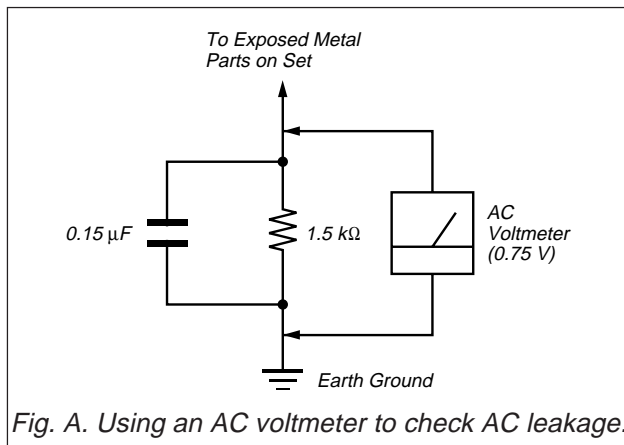
COLOR GRAPHIC DISPLAY

COMPAQ

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.



LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes).

Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

WARNING!!

NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK \triangle ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

AVERTISSEMENT!!

NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVÉE.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE \triangle SONT CRITIQUES POUR LA SÉCURITÉ. NE LES REMPLACER QUE PAR UNE PIÈCE PORTANT LE NUMÉRO SPECIFIÉ. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

POWER SAVING FUNCTION

The energy saver feature has three different modes of operation:


- Full Power
- Standby/Suspend
- Sleep

By selecting settings in the computer's Energy Saver utility, you are able to determine the length of the inactivity period before the monitor goes into sleep mode.

The following table describes the monitor energy saver levels available during the different modes of operation.


Energy Saver Levels*		
Mode	Power Usage	Description
Full Power	Less than 145 Watts	ON = Normal operation Power LED is green.
Standby/Suspend	Less than 15 Watts	Monitor screen is blank. LED blinks amber and green. There is a brief warm-up period before returning to full power mode.
Sleep	Approximately 1 Watt	Monitor screen is blank. LED turns amber. There is a brief warm-up period before returning to full power mode.
Off	0 Watts	Monitor screen is blank. LED is OFF. There is a brief warm-up period before returning to full power mode.

Refer to your computer manual for instructions on setting energy saver features (sometimes referred to as power management features).

 The energy saver features for monitors only work when connected to computers that have energy saver features.

DIAGNOSIS

- **Monitor is Working out of Scan Range, Change PC Settings**
Indicates the monitor is unable to operate with the selected input signal. Readjust your video setting to a lower resolution.
- **Monitor in Power Save Mode, Activate Using the PC**
Indicates the monitor is in one of the power saving modes.
- **Monitor is Working, Check Signal Cable**
Indicates the video cable may not be plugged into the computer.

If the screen goes blank and the LED is green, remove any video connections from video connector 1 or 2. You can also turn off the PC. Press the power switch twice to turn the monitor OFF then ON again. Press the right arrow button  (contrast increase) before the monitor enters power saving mode. If a color bar pattern appears then it is likely the problem is not the monitor. Please check the condition of your computer. If the color bar pattern does not appear, please inform your service representative of the monitor's condition. If the power LED is flashing orange, please make note of the frequency of flashing and inform your service representative of this frequency.

TIMING SPECIFICATION

MODE AT PRODUCTION	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6	MODE 7	MODE 8	MODE 9
RESOLUTION	640 X 480	640 X 480	720 X 400	800 X 600	800 X 600	832 X 624	1024 X 768	1024 X 768	1152 X 870
CLOCK	25.175 MHz	36.000 MHz	28.322 MHz	49.500 MHz	56.250 MHz	57.283 MHz	78.750 MHz	94.500 MHz	100.000 MHz
— HORIZONTAL —									
H-FREQ	31.469 kHz	43.269 kHz	31.469 kHz	46.875 kHz	53.674 kHz	49.725 kHz	60.023 kHz	68.677 kHz	68.681 kHz
	usec	usec	usec	usec	usec	usec	usec	usec	usec
H. TOTAL	31.778	23.111	31.777	21.333	18.631	20.111	16.660	14.561	14.560
H. BLK	6.356	5.333	6.355	5.172	4.409	5.586	3.657	3.725	3.040
H. FP	0.636	1.556	0.636	0.323	0.569	0.559	0.203	0.508	0.320
H. SYNC	3.813	1.556	3.813	1.616	1.138	1.117	1.219	1.016	1.280
H. BP	1.907	2.222	1.907	3.232	2.702	3.910	2.235	2.201	1.440
H. ACTIV	25.422	17.778	25.422	16.162	14.222	14.524	13.003	10.836	11.520
— VERTICAL —									
V. FREQ (HZ)	59.940 Hz	85.008 Hz	70.087 Hz	75.000 Hz	85.061 Hz	74.550 Hz	75.029 Hz	84.997 Hz	75.062 Hz
	lines	lines	lines	lines	lines	lines	lines	lines	lines
V. TOTAL	525	509	449	625	631	667	800	808	915
V. BLK	45	29	49	25	31	43	32	40	45
V. FP	10	1	13	1	1	1	1	1	3
V. SYNC	2	3	2	3	3	3	3	3	3
V. BP	33	25	34	21	27	39	28	36	39
V. ACTIV	480	480	400	600	600	624	768	768	870
— SYNC —									
INT(G)	NO	NO	NO	NO	NO	NO	NO	NO	NO
EXT (H/V) /POLARITY	YES N/N	YES N/N	YES N/P	YES P/P	YES P/P	YES N/N	YES P/P	YES P/P	YES N/N
EXT (CS) /POLARITY	NO	NO	NO	NO	NO	NO	NO	NO	NO
INT/NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT

MODE AT PRODUCTION	MODE 10	MODE 11	MODE 12	MODE 13	MODE 14	MODE 15	MODE 16	MODE 17	MODE 18
RESOLUTION	1280 X 1024	1280 X 1024	1280 X 1024	1600 X 1200	1600 X 1200	1792 X 1344	1792 X 1344	1920 X 1440	1920 X 1440
CLOCK	108.000 MHz	135.000 MHz	157.500 MHz	189.000 MHz	229.500 MHz	204.750 MHz	261.000 MHz	234.000 MHz	297.000 MHz
— HORIZONTAL —									
H-FREQ	63.981 kHz	79.976 kHz	91.146 kHz	87.500 kHz	106.250 kHz	83.640 kHz	106.270 kHz	90.000 kHz	112.500 kHz
	usec	usec	usec	usec	usec	usec	usec	usec	usec
H. TOTAL	15.630	12.504	10.971	11.429	9.412	11.956	9.410	11.111	8.889
H. BLK	3.778	3.022	2.844	2.963	2.440	3.204	2.544	2.906	2.424
H. FP	0.444	0.119	0.406	0.339	0.279	0.625	0.368	0.547	0.485
H. SYNC	1.037	1.067	1.422	1.016	0.837	0.977	0.828	0.889	0.754
H. BP	2.296	1.837	1.016	1.608	1.325	1.602	1.349	1.470	1.185
H. ACTIV	11.852	9.481	8.127	8.466	6.972	8.752	6.866	8.205	6.465
— VERTICAL —									
V. FREQ (HZ)	60.020 Hz	75.025 Hz	85.024 Hz	70.000 Hz	85.000 Hz	60.000 Hz	74.997 Hz	60.000 Hz	75.000 Hz
	lines	lines	lines	lines	lines	lines	lines	lines	lines
V. TOTAL	1066	1066	1072	1250	1250	1394	1417	1500	1500
V. BLK	42	42	48	50	50	50	73	60	60
V. FP	1	1	1	1	1	1	1	1	1
V. SYNC	3	3	3	3	3	3	3	3	3
V. BP	38	38	44	46	46	46	69	56	56
V. ACTIV	1024	1024	1024	1200	1200	1344	1344	1440	1440
— SYNC —									
INT(G)	NO	NO	NO	NO	NO	NO	NO	NO	NO
EXT (H/V) /POLARITY	YES P/P	YES P/P	YES P/P	YES P/P	YES P/P	YES N/P	YES N/P	YES N/P	YES N/P
EXT (CS) /POLARITY	NO	NO	NO	NO	NO	NO	NO	NO	NO
INT/NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT

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Note: Hand degauss must be used on stand-by or power-off condition.

This model has an automatic earth magnetism correction function by using an earth magnetism sensor and a LCC coil. When using a hand degauss while monitor (LCC coil) is being operated, it sometimes gets magnetized, and the system may not work properly as a result.


The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

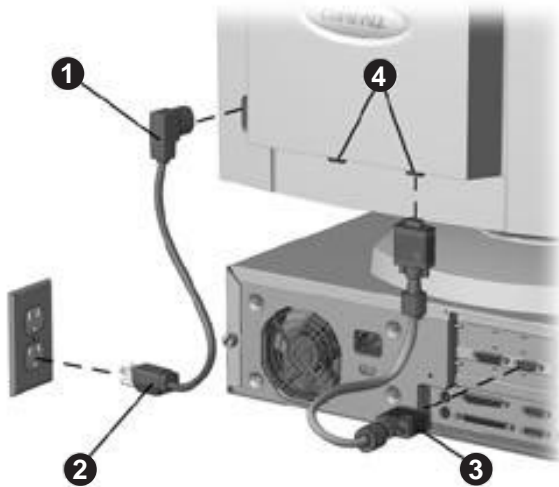
SECTION 1 GENERAL

Setting Up the Monitor

To set up the monitor, ensure that the power is turned off to the monitor, computer system, and other attached devices, then follow these steps:

1. Place the monitor in a convenient, well-ventilated location near your computer.
2. Connect the monitor signal cable ③ to one of the two 15-pin connectors ④ on the rear panel of the computer and tighten the screws.

 Be sure the signal cable aligns with the 15-pin connector. Do not force the cable onto the connector or you may damage the signal cable.



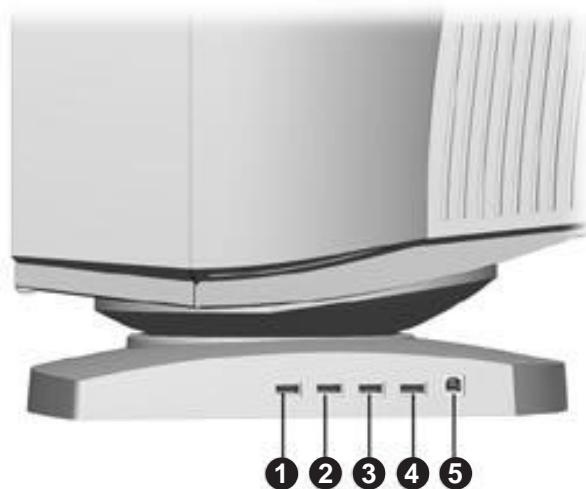
3. Connect one end of the monitor power cord ① to the connector on the back of the monitor and the other end ② to an electrical outlet that is easily accessible and close to the monitor.



WARNING: To reduce the risk of electric shock or damage to your equipment:

- Do not disable the power cord grounding plug. The grounding plug is an important safety feature.
- Plug the power cord into a grounded (earthed) electrical outlet that is easily accessible at all times.
- Disconnect power from the monitor by unplugging the power cord from the electrical outlet.
- Do not place anything on power cords or cables. Arrange them so that no one may accidentally step on or trip over them. Do not pull on a cord or cable. When unplugging from the electrical outlet, grasp the cord by the plug.

Using USB Connectors

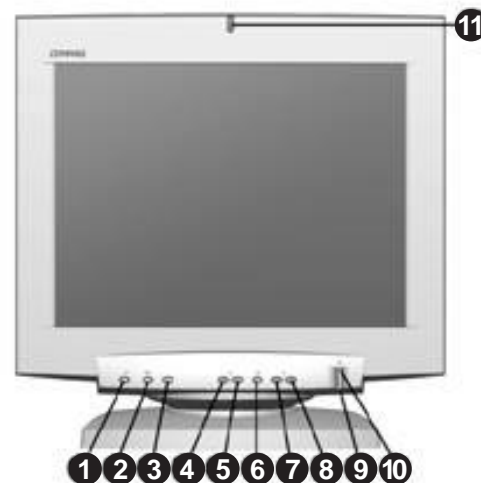


The base of the monitor has five Universal Serial Bus (USB) connectors. Four of these connectors, **1**, **2**, **3**, and **4**, are for connecting USB compatible devices such as a keyboard, mouse, or joystick to the hub. USB connector **5** is used to connect the USB signal cable to the computer. The USB signal cable is included with the monitor.

The following are required to operate the USB hub:

- Your computer must be fitted with a USB port.
- Your computer must have Microsoft Windows 95 OSR2.1 or later, or Microsoft Windows 98 as the operating system.





Operating the Monitor



Front Panel Controls

No./Icon	Control	Function
1 //	Reset Button	Pressing this button resets the following items: Contrast, brightness, size/center, geometry, screen, zoom, and color. OSD Position, Color Mode, Control Lock, and Language can not be reset.
2 +	Auto Adjust	Provides automatic horizontal and vertical centering and sizing.
3 1 2	Input/Select Button	Selects either video input 1 or 2.
4 ↓	Brightness Button	Down arrow Decreases brightness or is used to select menu adjustment
5 ↑	Brightness Button	Up arrow Increases brightness or is used to select menu adjustment.
6 ☰	Menu Button	Launches on-screen menus and selects the functions. Also, exits menus and on-screen display.
7 ←	Contrast Button	Left arrow decreases contrast or is used to adjust selected OSD adjustment item.

Continued

8		Contrast Button	Right arrow increases contrast or is used to adjust selected OSD adjustment item
9		Power Button	Turns the monitor on and off.
10		LED	Indicates monitor mode. 1. Green LED indicates monitor is turned on. 2. Alternating Amber/Green LED indicates Standby/Suspend. 3. Amber LED indicates Sleep Mode.
11		Light Sensor	Automatically adjusts the monitor contrast depending on the ambient light levels.

On-Screen Display Settings

To adjust screen settings, press the Menu button **6** to launch the on-screen display (OSD). The OSD can be viewed in nine available languages. The following menu shows the functions at each level:

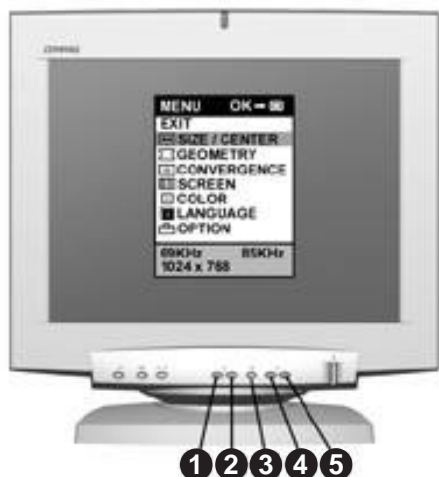
Menu Level 1	Menu Level 2
Size/Center	Horizontal Centering Vertical Centering Horizontal Sizing Vertical Sizing Zoom
Geometry	Rotation Pincushion Pin Balance Keystone Key Balance
Convergence	Horizontal Convergence Vertical Convergence Vertical Convergence Top Vertical Convergence Bottom
Screen	Landing Left Top Landing Right Top Landing Left Bottom Landing Right Bottom Moire Cancel
Color	Easy - 5000/6500/9300/adjustable Expert - RGB Gain, RGB Bias Color Return - optimizes screen brilliance as CRT ages.
Language	English Francais Deutsche Espanol Italiano Nederlands Svenska Русский (Russian) 日本語 (Japanese)
Option	Degauss OSD Horizontal Position OSD Vertical Position Control Lock Light Sensor
Information	Model Serial Manufactured

* To get this data press the Menu button for 5 seconds while the monitor picture is stable.

How to Adjust Screen Settings

To launch the on-screen display Main Menu:

1. Press the Menu button **3** on the monitor front panel. The Main Menu will display on the monitor screen.
2. To select an item from the Main Menu, scroll down by pressing the down arrow button **1** located on the monitor front panel. To reverse or back up, press the up arrow button **2**.
3. The item to be selected will be highlighted in yellow. Press the Menu button **3** again.



Monitor with On-Screen Display



The bar on the bottom of the OSD menu shows the current operating frequency (and resolution if VESA standard).

4. A second-level menu displays and adjustment scale. Use the arrow keys **4** or **5** to select a value on the adjustment scale.
5. Press the Menu button **3** to exit from that adjustment.
6. To exit from the on-screen menu, press the Menu button again.

Press **Reset** to return the adjustments to their original settings.

Troubleshooting

Special OSD Messages

Special OSD messages will appear on the monitor screen when identifying the following monitor conditions:

- **Monitor is Working out of Scan Range, Change PC Settings**
Indicates the monitor is unable to operate with the selected input signal. Readjust your video setting to a lower resolution.
- **Monitor in Power Save Mode, Activate Using the PC**
Indicates the monitor is in one of the power saving modes.
- **Monitor is Working, Check Signal Cable**
Indicates the video cable may not be plugged into the computer.

Self Diagnosis

If the screen goes blank and the LED is green, remove any video connections from video connector 1 or 2. You can also turn off the PC. Press the power switch twice to turn the monitor OFF then ON again. Press the right arrow button **4** (contrast increase) before the monitor enters power saving mode. If a color bar pattern appears then it is likely the problem is not the monitor. Please check the condition of your computer. If the color bar pattern does not appear, please inform your service representative of the monitor's condition. If the power LED is flashing orange, please make note of the frequency of flashing and inform your service representative of this frequency.

Adjusting Screen Quality

The optimum screen settings are factory preset. However, to change the settings to your personal preference, allow the monitor to warm up for 30 minutes before performing the following procedures. The screen image stabilizes after a warm-up period.

Optimizing Contrast


For best results, set your screen to a light background (such as the Windows Desktop) before adjusting the following settings:

1. Set the brightness control to its maximum setting, then reduce the brightness to your preference.
2. Adjust the contrast setting to your preference.

Optimizing Focus

The default image size is preset at the factory. The front panel controls can be used to increase the screen size beyond the default setting. However, expanding the screen image beyond the default settings may degrade the focus at the outer edge of the screen.

To enhance focus, use the lowest brightness and contrast levels that provide satisfactory results in your viewing environment.

 Settings that maximize contrast may not offer optimum focus, and settings that maximize focus may not offer optimum contrast.

Display Resolutions

The display resolutions listed below are the most commonly used modes and are set as factory defaults. This monitor automatically recognizes these preset modes and they will appear properly sized and centered on the screen.

Display Resolutions	
Preset Modes	Resolutions
1. Industry Standard	640 × 480 at 60 Hz/31.5 kHz
2. VESA	640 × 480 at 85 Hz/43.3 kHz
3. Industry Standard	720 × 400 at 70 Hz/31.5 kHz
4. VESA	800 × 600 at 75 Hz/46.9 kHz
5. VESA	800 × 600 at 85 Hz/53.7 kHz
6. Macintosh-compatible	832 × 624 at 75 Hz/49.7 kHz
7. VESA	1024 × 768 at 75 Hz/60 kHz
8. VESA	1024 × 768 at 85 Hz/68.7 kHz
9. Macintosh-compatible	1152 × 870 at 75 Hz/68.7 kHz
10. VESA	1280 × 1024 at 60 Hz/63.9 kHz
11. VESA	1280 × 1024 at 75 Hz/79.9 kHz
12. VESA	1280 × 1024 at 85 Hz/91.1 kHz
13. VESA	1600 × 1200 at 70 Hz/87.5 kHz
14. VESA	1600 × 1200 at 85 Hz/106.3 kHz
15. VESA	1792 × 1344 at 60 Hz/83.7 kHz
16. VESA	1792 × 1344 at 75 Hz/106.3 kHz
17. VESA	1920 × 1440 at 60 Hz/90.0 kHz
18. VESA	1920 × 1440 at 75 Hz/112.5 kHz

When "*Factory Reset*" is selected by pressing the reset button. The factory reset values will replace user changes that were made for only the current operating mode.

 If the video input signal meets the Generalized Timing Formula (GTF) the monitor will automatically provide an optimal screen image.

Maximum Refresh Rates

This monitor is capable of the maximum refresh rates listed in the following table. However, the video adapter installed in your computer must also be capable of supporting these refresh rates in order for them to operate. Most of the new video adapters being shipped and sold in computers today are capable of supporting these calculated refresh rates. Certain video adapters may provide different timing parameters which could result in slightly different maximum refresh rates.

Maximum Refresh Resolutions
640 × 480 at 160 Hz
800 × 600 at 160 Hz
1024 × 768 at 140 Hz
1280 × 1024 at 110 Hz
1600 × 1200 at 95 Hz

User Modes

The video controller signal may occasionally call for a mode that is not preset if:

- You are not using a Compaq standard graphics adapter.
- You are not using a preset mode.

If this occurs, you may need to readjust the parameters of the monitor screen by using the on-screen display. User changes can be made to any or all of these modes and saved in memory. The monitor automatically stores the new setting, then recognizes the new mode just as it does a preset mode. In addition to the 18 factory preset modes, there are fifteen user modes that can be entered and stored.

Energy Saver Feature

The energy saver feature has three different modes of operation:


- Full Power
- Standby/Suspend
- Sleep

By selecting settings in the computer's Energy Saver utility, you are able to determine the length of the inactivity period before the monitor goes into sleep mode.

The following table describes the monitor energy saver levels available during the different modes of operation.

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Mode	Power Usage	Description
Full Power	Less than 145 Watts	ON = Normal operation Power LED is green.
Standby/Suspend	Less than 15 Watts	Monitor screen is blank. LED blinks amber and green. There is a brief warm-up period before returning to full power mode.
Sleep	Approximately 1 Watt	Monitor screen is blank. LED turns amber. There is a brief warm-up period before returning to full power mode.
Off	0 Watts	Monitor screen is blank. LED is OFF. There is a brief warm-up period before returning to full power mode.

Refer to your computer manual for instructions on setting energy saver features (sometimes referred to as power management features).

-  The energy saver features for monitors only work when connected to computers that have energy saver features.

Care and Maintenance

This section explains how to care for and maintain your Compaq monitor during normal everyday use.

Protecting the Monitor

To protect your monitor from overheating and other types of damage, follow these suggestions:

- Use only a power source and connection appropriate for this monitor, as indicated on the marking label/back plate.
- If an extension cord or power strip is used, make sure that the cord or strip is rated for the product and that the total ampere ratings of all products plugged into the extension cord or power strip do not exceed 80% of the extension cord or strip ampere ratings limit.
- Do not overload an electrical outlet, power strip, or convenience receptacle. The overall system load must not exceed 80% of the branch circuit rating. If power strips are used, the load should not exceed 80% of the power strip input rating.
- Install the monitor near an outlet that you can easily reach. Disconnect the product by grasping the plug firmly and pulling it from the outlet. Never disconnect it by pulling the cord.
- Unplug the monitor from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
- Slots and openings in the cabinet are provided for ventilation. These openings must not be blocked or covered. Never push objects of any kind into cabinet slots or other openings.
- Do not place plants on top of the monitor. Water or dirt from the plant may fall into the vents.
- Do not drop the monitor or place it on an unstable surface.
- Do not allow anything to rest on the power cord. Do not walk on the cord.

- Keep the monitor in a well-ventilated area, away from excessive light, heat, and moisture.
- In a two-monitor system, place the monitors as far apart from each other as possible to lessen interference between them.
- Do not open the monitor cabinet or attempt to service this product yourself. Adjust only those controls that are covered by the operating instructions. If the monitor is not operating properly or has been dropped or damaged, contact your Compaq authorized dealer, reseller, or service provider.

Cleaning the Monitor

To clean the monitor, follow these steps:

1. Turn off the monitor and the computer.
2. Dust the monitor by wiping the screen and the cabinet with a soft, clean cloth.

If the screen requires additional cleaning, use any antistatic CRT screen cleaner.



CAUTION: Do not use benzene, thinner, ammonia, or any volatile substance to clean the monitor screen or cabinet. These chemicals may damage the monitor.

Shipping the Monitor

Keep the original packing box in a storage area. You may need it later if you move or ship your monitor.

Specifications

Compaq P1100 Color Monitor		
Display	21-in	53.3-cm
Type	Color, FD Trinitron®	
Viewable Image Size (diagonal)	19.8-in	50.2-cm
Face Treatment	Antireflective and antistatic coating compliant with TCO 1999 requirements	
Maximum Weight (Unpacked)	70.4-lb	32.0-kg
Maximum Dimensions		
Height	19.9-in	50.6-cm
Depth	19.4-in	49.3-cm
Width	19.8-in	50.4-cm
Maximum Graphics Resolution	1920 × 1440 at 75Hz Refresh Rate	
Aperture Grille Pitch	P22, 0.24 mm	
Text Mode	720 × 400	
Horizontal Frequency	30 to 121 kHz	
Vertical Frequency	50 to 160 Hz	
Environmental Requirements	Temperature	
Operating Temperature	50 to 95 °F	5 to 35 °C
Storage Temperature	-22 to 140 °F	-20 to 60 °C
Humidity (Noncondensing)		
Operating	20 to 80%	
Nonoperating	10 to 90%	
Power Source	90 - 132/195 - 255 VAC, 50-60 Hz	
Power Consumption	< 160 Watts	
Input Terminal	Two 15-pin D-type connectors	

Color Display Values

CIE* Chromaticity Coordinates		
	x (+/- 0.030)	y (+/- 0.030)
Red	0.625	0.340
Blue	0.155	0.070
Green	0.280	0.605
White Point (9300 K)	0.281	0.311
Gamma: 2.6		

*Commission International d'Eclairage, 1931 Standard.

Power Cord

If you were not provided with a power cord for your computer, you should purchase a power cord that is approved for use in your country.

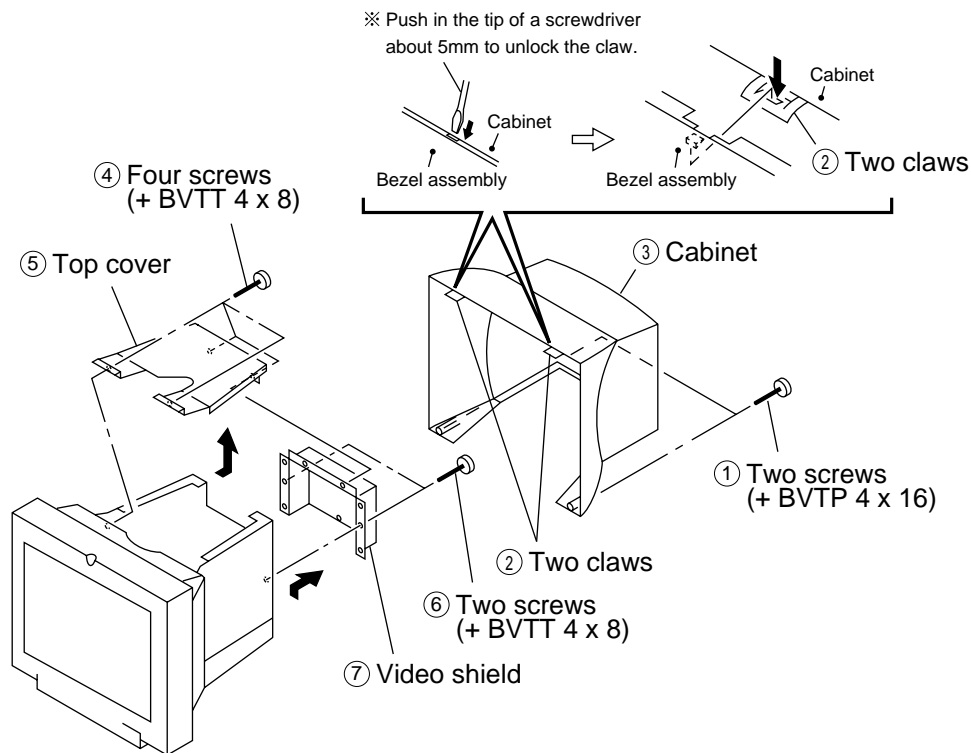
The power cord must be rated for the product and for the voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cord should be greater than the voltage and current rating marked on the product. In addition, the diameter of the wire must be a minimum of .75 mm² or 18AWG. And the length of the cord must be between 6 feet (1.8 m) and 12 feet (3.6 m). If you have questions about the type of power cord to use, contact your Compaq authorized service provider.

A power cord should be routed so that it is not likely to be walked on or pinched by items placed upon it or against it. Particular attention should be paid to the plug, electrical outlet, and the point where the cord exits from the product.

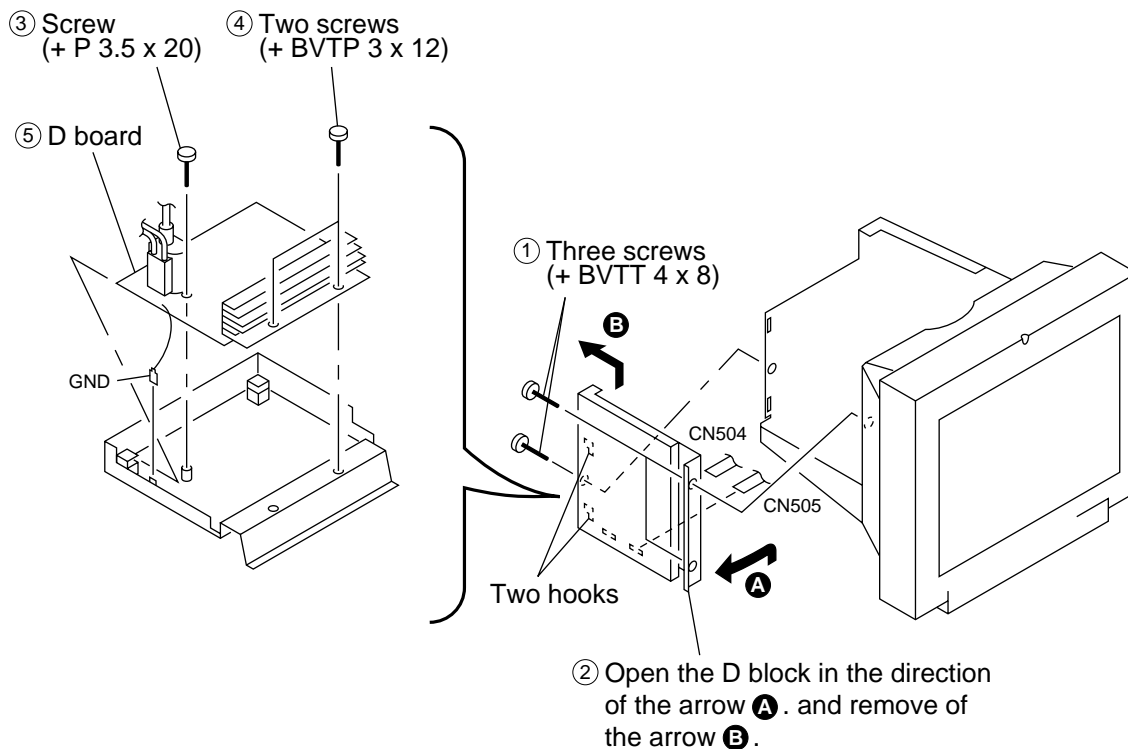
SECTION 2

DISASSEMBLY

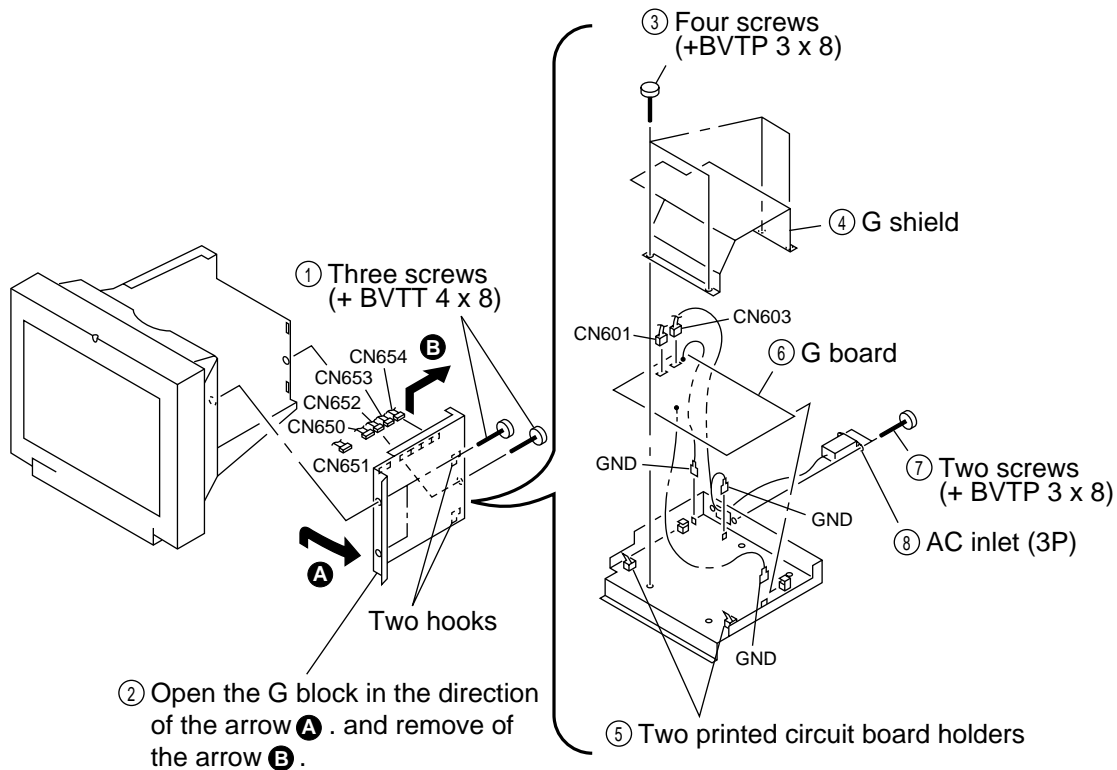
2-1. CABINET REMOVAL



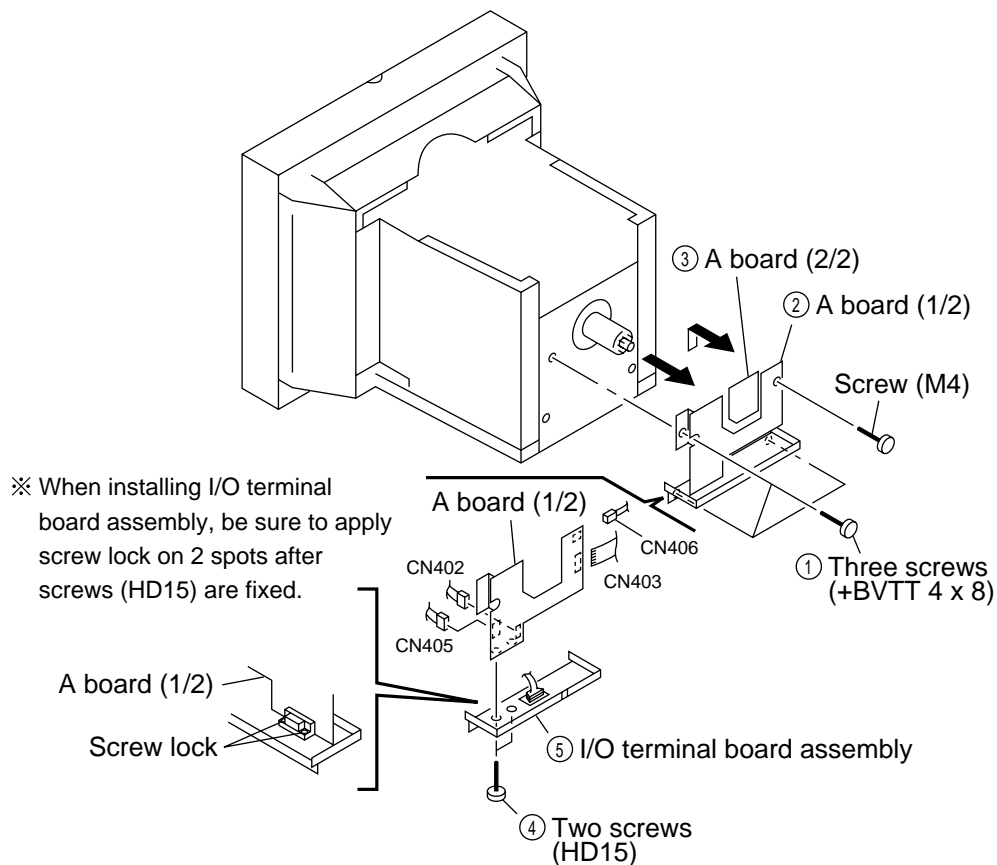
2-2. D BOARD REMOVAL



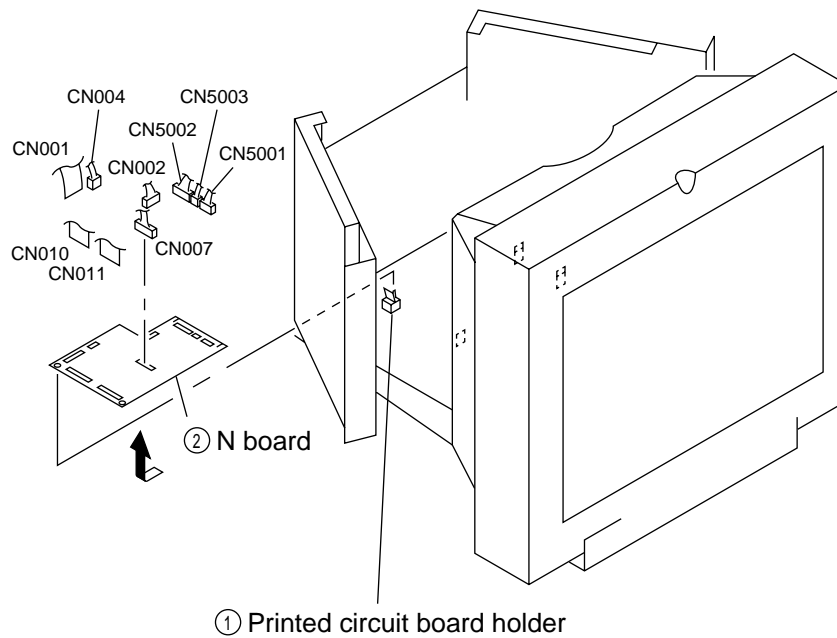
2-3. G BOARD REMOVAL



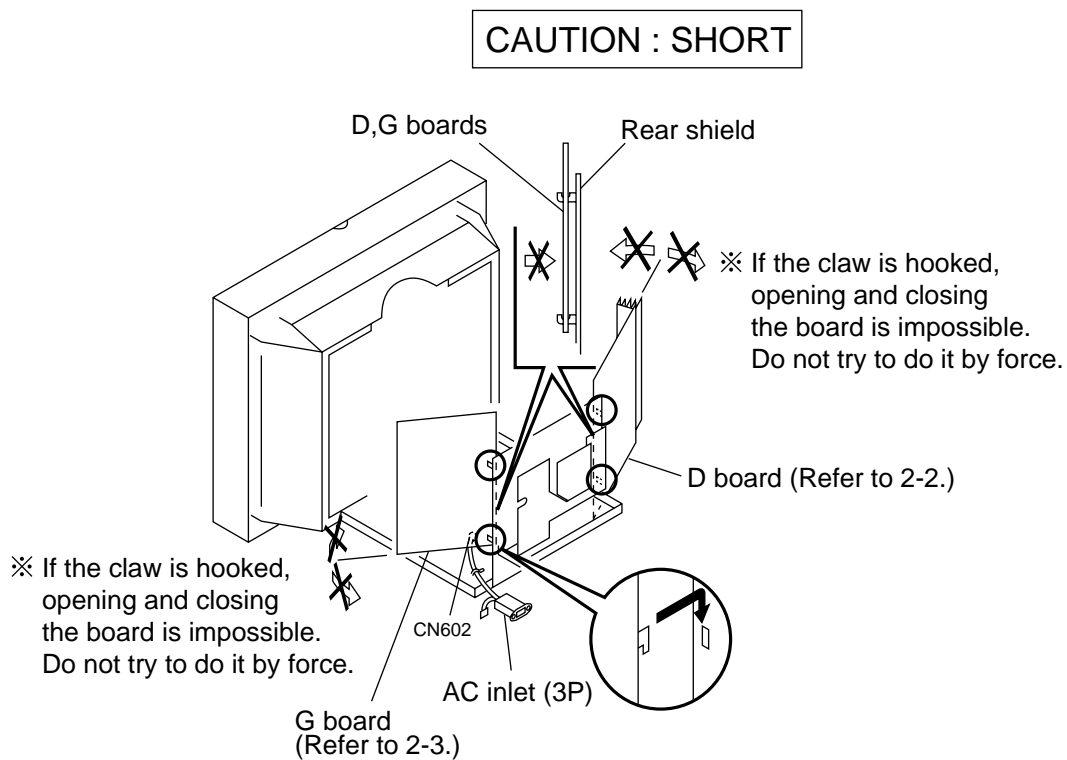
2-4. A BOARD, I/O TERMINAL BOARD ASSEMBLY REMOVAL



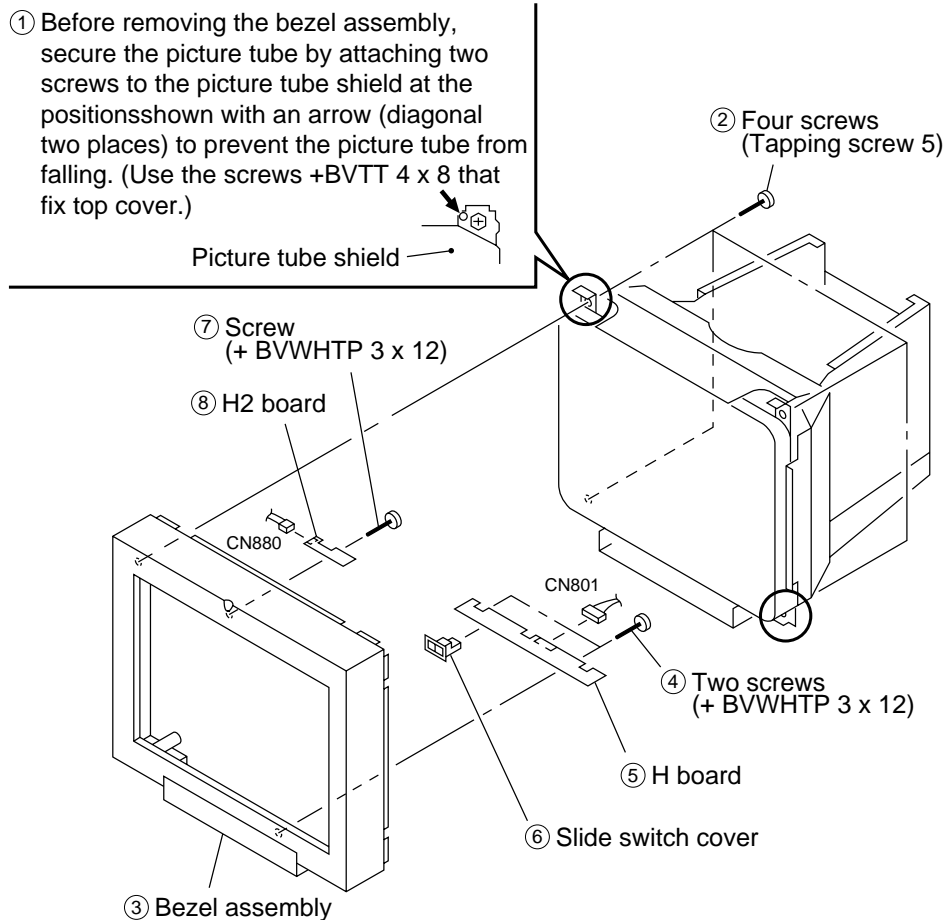
2-5. N BOARD REMOVAL



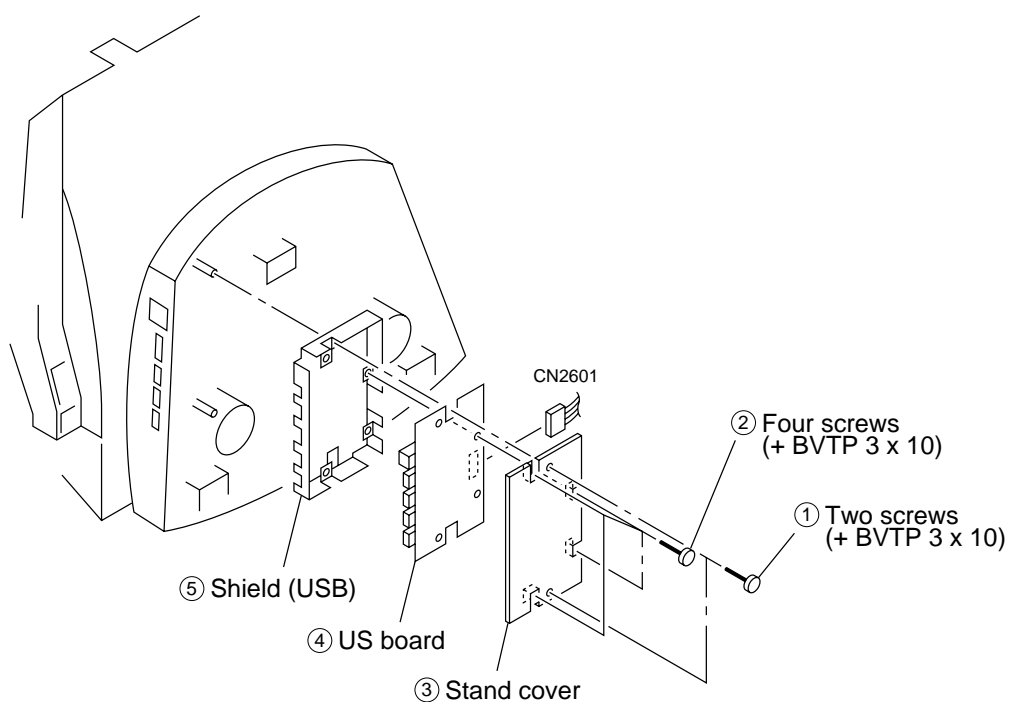
2-6. SERVICE POSITION



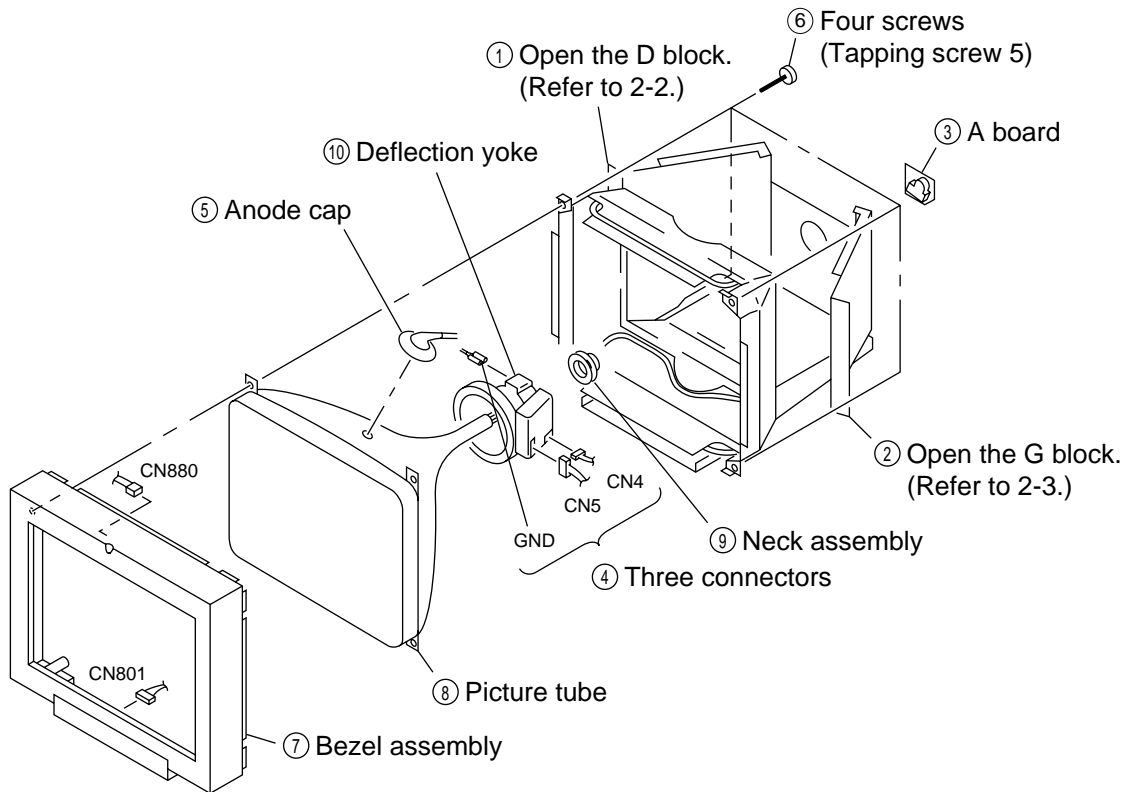
2-7. BEZEL ASSEMBLY, H AND H2 BOARDS REMOVAL



2-8. US BOARD REMOVAL



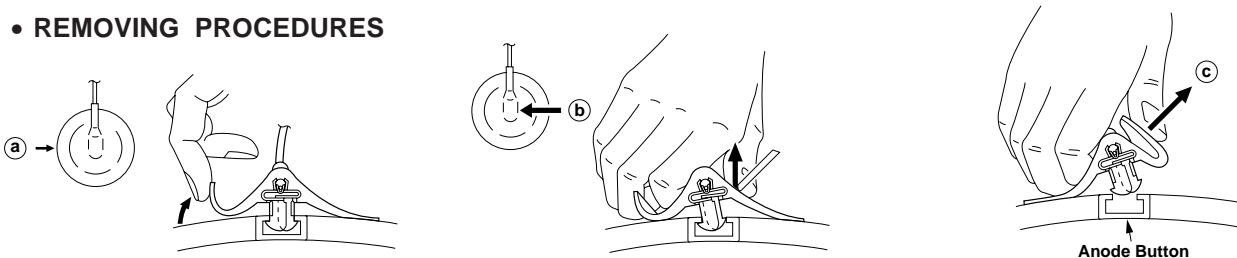
2-9. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

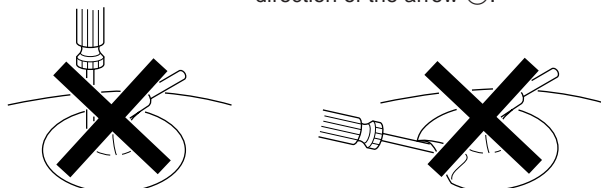
• REMOVING PROCEDURES



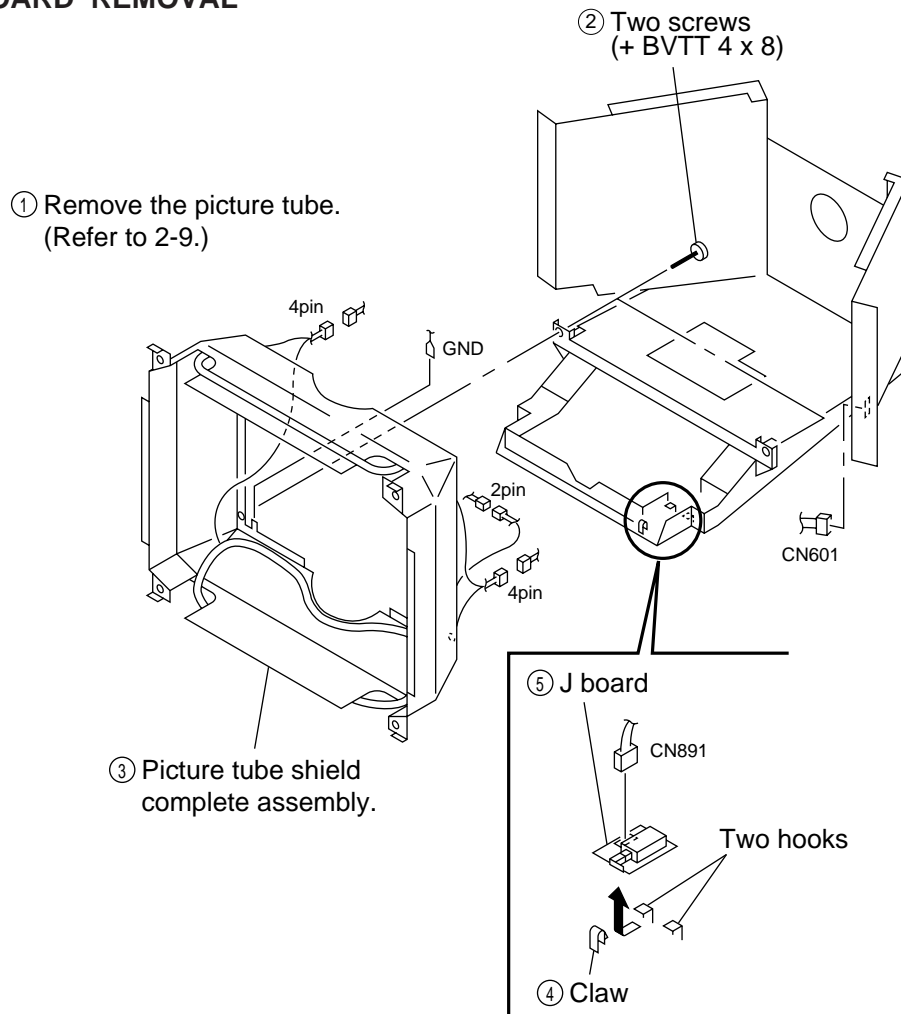
- ① Turn up one side of the rubber cap in the direction indicated by the arrow (a).
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b).
- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow (c).

• HOW TO HANDLE AN ANODE-CAP

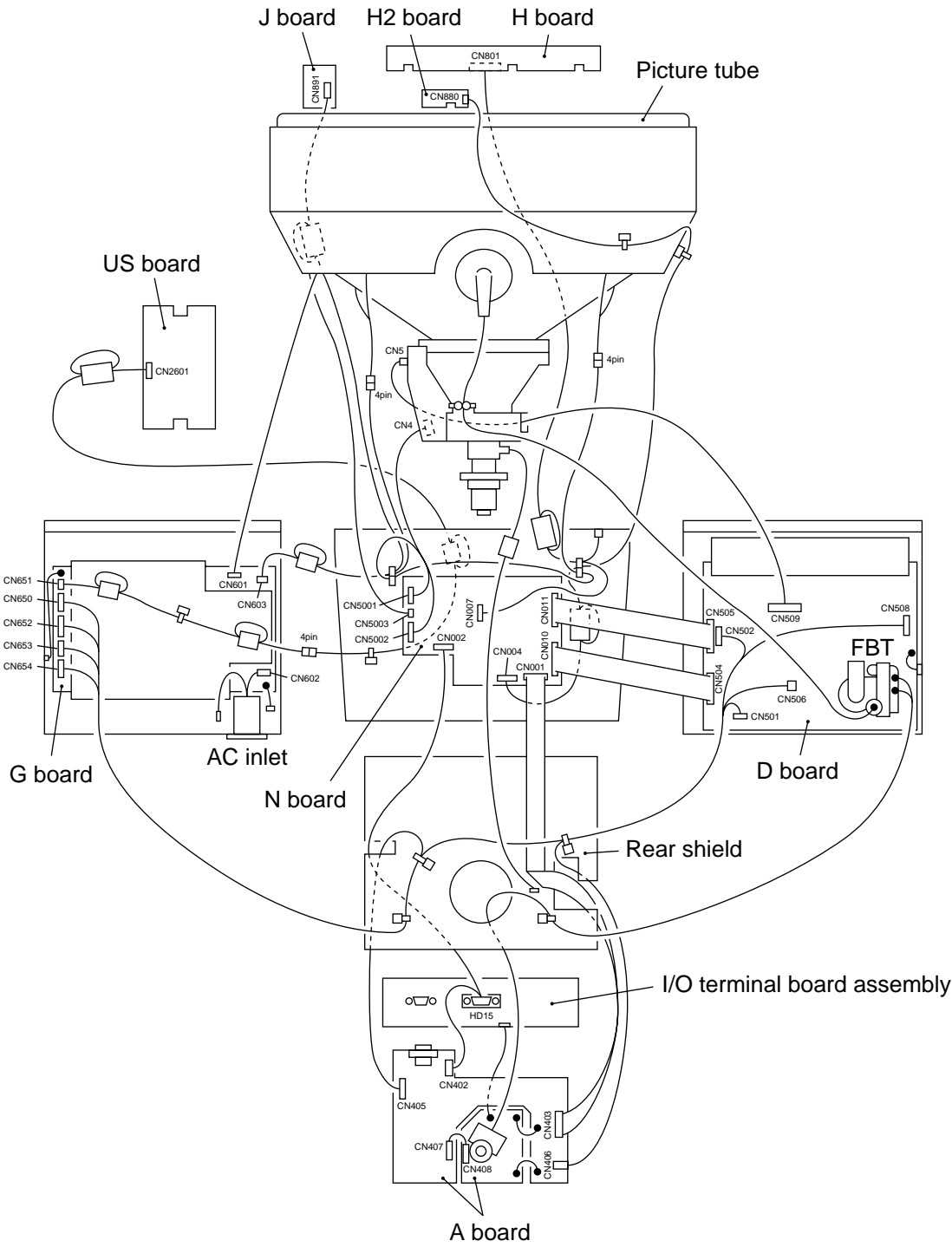
- ① Don't scratch the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardy not to damage inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardy!
The shatter-hook terminal will stick out or damage the rubber.



2-10. J BOARD REMOVAL



2-11. HARNESS LOCATION



SECTION 3

SAFETY RELATED ADJUSTMENT

When replacing or repairing the shown below table, the following operational checks must be performed as a safety precaution against X-rays emissions from the unit.

	Part Replaced (☒)
HV ADJ	RV901

	Part Replaced (☑)
HV Regulator Circuit Check	D Board C920, IC901, R923 R924, R929, R945, RV901, T902(FBT) • Mounted D Board
HV Protector Circuit Check	D Board C922, C925, C926, D912, D914, D915, D921, Q907, Q908, R921, R922, R932, R937, R939, T902(FBT) • Mounted D Board
Beam Current Protector Circuit Check	D Board C910, C921, C933, D901, D902, D913, IC503, IC901, R901, R920, R928, R930, R931, R940, R941, T902(FBT) • Mounted D Board G Board IC652 • Mounted G Board N Board IC001, R031, R032 • Mounted N Board

* Confirm one minute later turning on the power.

a) HV Regulator Circuit Check

- 1) Enter black crosshatch signal (black on white background), and check that high voltage is in the specified range.

[Specification]: 27.00 ± 0.10 kV

- 2) Check that the voltage of D912 cathode on the D board is 27.0 V or more.

b) HV Protector Circuit Check

- 1) Enter black crosshatch signal (black on white background).
- 2) Apply the specified voltage to the D912 cathode on the D board, and check that high voltage is 0.1 kV or less.

[Specification]: $31.90 + 0.00/- 0.05$ V

c) Beam Current Protector Circuit Check

(1st Protector): D Board

- 1) Apply 4.5 V DC to CN504 ⑩ pin on the D board, and check high voltage value.
- 2) Connect constant current source to a section between T902 (FBT) ⑪ pin and ⑫ pin (GND) on the D board, and check that high voltage checked in 1) lowers by 1.50 kV or more when the specified current flows to the ⑪ pin.

[Specification]: $2.00 + 0.00/- 0.01$ mA

d) Beam Current Protector Circuit Check

(2nd Protector): D Board

- 1) Connect constant current source to a section between T902 (FBT) ⑪ pin and ⑫ pin (GND) on the D board, and check that the voltage of CN504 ⑩ pin becomes 0 V or less when the specified current flows to the ⑪ pin.

[Specification]: $1.70 + 0.00/- 0.01$ mA

e) Beam Current Protector Circuit Check

: G Board

- 1) Apply 264 V AC.
- 2) Enter about 5 V to CN650 ④ pin on the G board, and check that the output voltage of CN653 ② pin is about 15 V.
- 3) Enter about 0 ± 0.2 V to CN654 ④ pin, and check that the output voltage of CN653 ② pin becomes 1.0 V or less.

f) Beam Current Protector Circuit Check

: N Board

- 1) Check that the protector operates, when the voltage of CN010 ⑩ pin on the N board is lowered to 0 V or less (for more than 2 seconds).

SECTION 4

ADJUSTMENTS

Note: Hand degauss must be used on stand-by or power-off condition.

This model has an automatic earth magnetism correction function by using an earth magnetism sensor and a LCC coil. When using a hand degauss while monitor (LCC coil) is being operated, it sometimes gets magnetized, and the system may not work properly as a result.

• Landing Rough Adjustment

1. Enter the full white signal. (or the full black dots signal).
 2. Adjust the contrast to the maximum.
 3. Make the screen monogreen.
- Note: Off the outputs from R ch and B ch of SG.
4. Reverse the DY, and adjust coarsely the purity magnet so that a green raster positions in the center of screen.
 5. Adjust the tilt of DY, and fix lightly with a clamp.

Note: "TILT" = "128".

• Landing Fine Adjustment

1. Put the set inside the Helmholtz coil. ("LCC SW" = "12")
2. Input the single green signal and set the "CONTRAST" = "255".

Note: After the W/B adjustment with 9300K, measure an average of ΣI_k when a full white signal is entered in the CONT MAX/BRT CENT status. Then make adjustment so that the specified screen can be attained after aging for 2 hours with I_k equivalent to 30% of the average value.

3. Demagnetize the metal part of the chassis with the hand degausser and coil degausser, and the CRT surface with the hand degausser.

Input AC 230V to AC IN, turn on and off the power to perform auto degaussing. (Perform auto degaussing by setting "FUNCTION SW" = 1. Return to the original value after use.)

Demagnetize the CRT surface with the hand degausser again.

Note:

- (1) Hand degauss must be used on stand-by or power-off condition.

This model has an automatic earth magnetism correction function by using an earth magnetism sensor and a LCC coil. When using a hand degauss while monitor (LCC coil) is being operated, it sometimes gets magnetized, and the system may not work properly as a result.

- (2) Adjust in a non-magnetic field.
- (3) If adjusting in a magnetic fields, add the shift from the non-magnetic field in your estimation.
4. Attach the wobbling coil to the designated part of the CRT neck.
5. Attach the sensor of the landing adjustment unit on the CRT surface.

6. Adjust the DY position and purity, and the DY tilt, and landing of the center and 4 corners with the landing checker. After adjustment, set "LCC SW" to "13".

- Write terrestrial magnetism sensor reading VX and VY to "LCC VX" and "LCC VY" respectively. Adjust the landing by moving "LCC NS", "LCC LT", "LCC LB", "LCC RT" and "LCC RB". However, the register adjustment must be limited within the following range.

"LCC NS" 128 ± 15

"LCC LT", "LCC LB", "LCC RT", "LCC RB" 128 ± 40

Save the service data.

<Specifications>

Adjust so that the green is within the specification given right.

4 corner adjust target : within ± 1

(μm)		
0 ± 3	0 ± 7.5	0 ± 3
0 ± 3	0 ± 7.5	0 ± 3
0 ± 3	0 ± 7.5	0 ± 3

The red and blue must be within the specification given right with respect to the green.

(μm)		
± 6	± 6	± 6
± 6	± 6	± 6
± 6	± 6	± 6

A difference between red and blue must be within the specification given right.

(μm)		
10	10	10
10	7	10
10	10	10

- * Adjustment and measurement should be made at the points one inch inside the fluorescent screen.

7. For the up/down swing, swing the DY and insert a wedge so that the up and down pins are equal at the top and bottom. Adjust the H.TRP VR of DY so that the horizontal trapezoid is equal at the left and right. Insert the wedge firmly so that the DY does not shake.

8. Check the landing of each corner, and if it does not satisfy the specification, adjust the landing of four corners using "LCC LT", "LCC LB", "LCC RT" and "LCC RB".

However, the register adjustment must be limited within the following range.

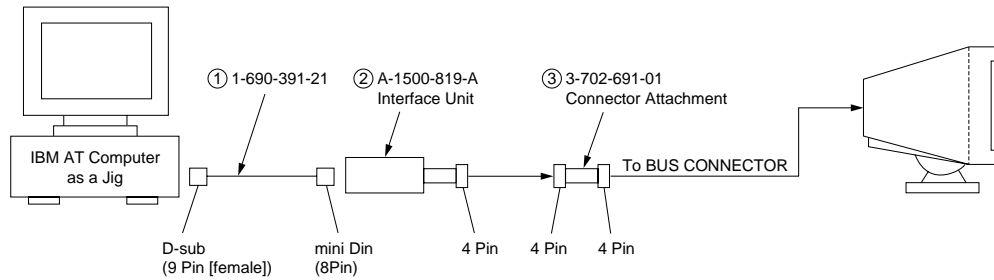
"LCC NS" 128 ± 15

"LCC LT", "LCC LB", "LCC RT", "LCC RB" 128 ± 40

After adjustment, save the service data.

9. Remove the sensor and wobbling coil.
10. Switch the signal to R.G.B., and check that each color is pure.
11. Check that the DY is not tilting, and fix the purity Mg with a white pen. Fix wedges with RTV.

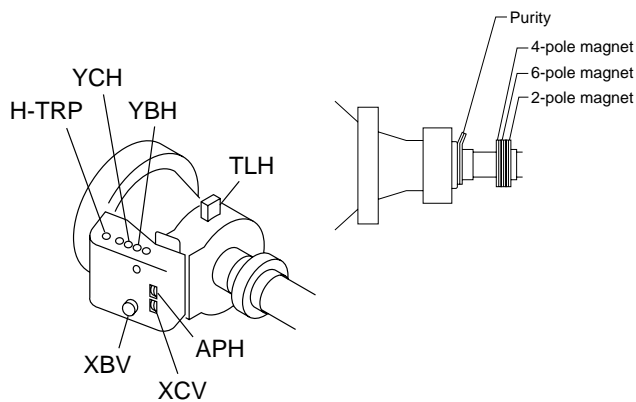
Connect the communication cable of the computer to the connector located on the D board. Run the service software and then follow the instruction.



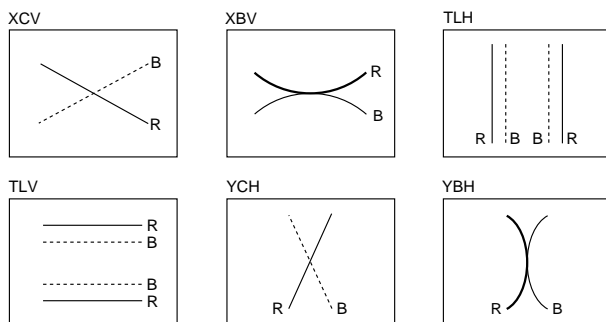
*The parts above (① ~ ③) are necessary for DAS adjustment.

• Convergence Rough Adjustment

- (1) Receive an image of the white crosshatch signals (white lines on black).
- (2) Place the protrusions of the 6-fold poles magnet attached to the CRT neck upon each other.
- (3) Make rough adjustment of the H and V direction convergence by using 4-fold poles magnet.



* Set so that the protruding parts of the 2 magnet rings agree with each other.



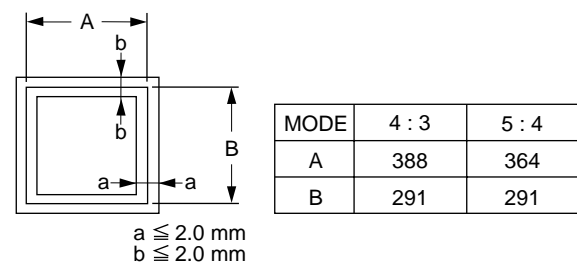
• Convergence Specification

	fH	60kHz ≤	60kHz >
	A	0.20 mm	0.24 mm
	B	0.24 mm	0.28 mm

• White Balance Adjustment Specification

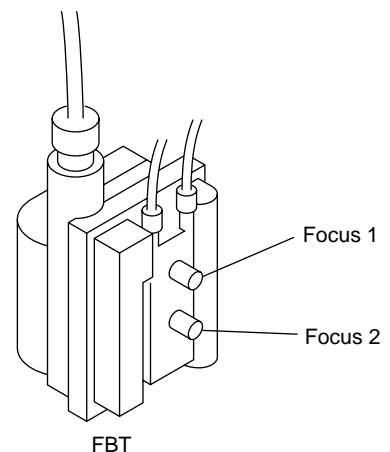
1. 9300K
 $x = 0.283 \pm 0.005$
 $y = 0.298 \pm 0.005$
 (All White)
2. 6500K
 $x = 0.313 \pm 0.005$
 $y = 0.329 \pm 0.005$
 (All White)
3. 5000K
 $x = 0.346 \pm 0.005$
 $y = 0.359 \pm 0.005$
 (All White)

• Vertical and Horizontal Position and Size Specification



• Focus adjustment

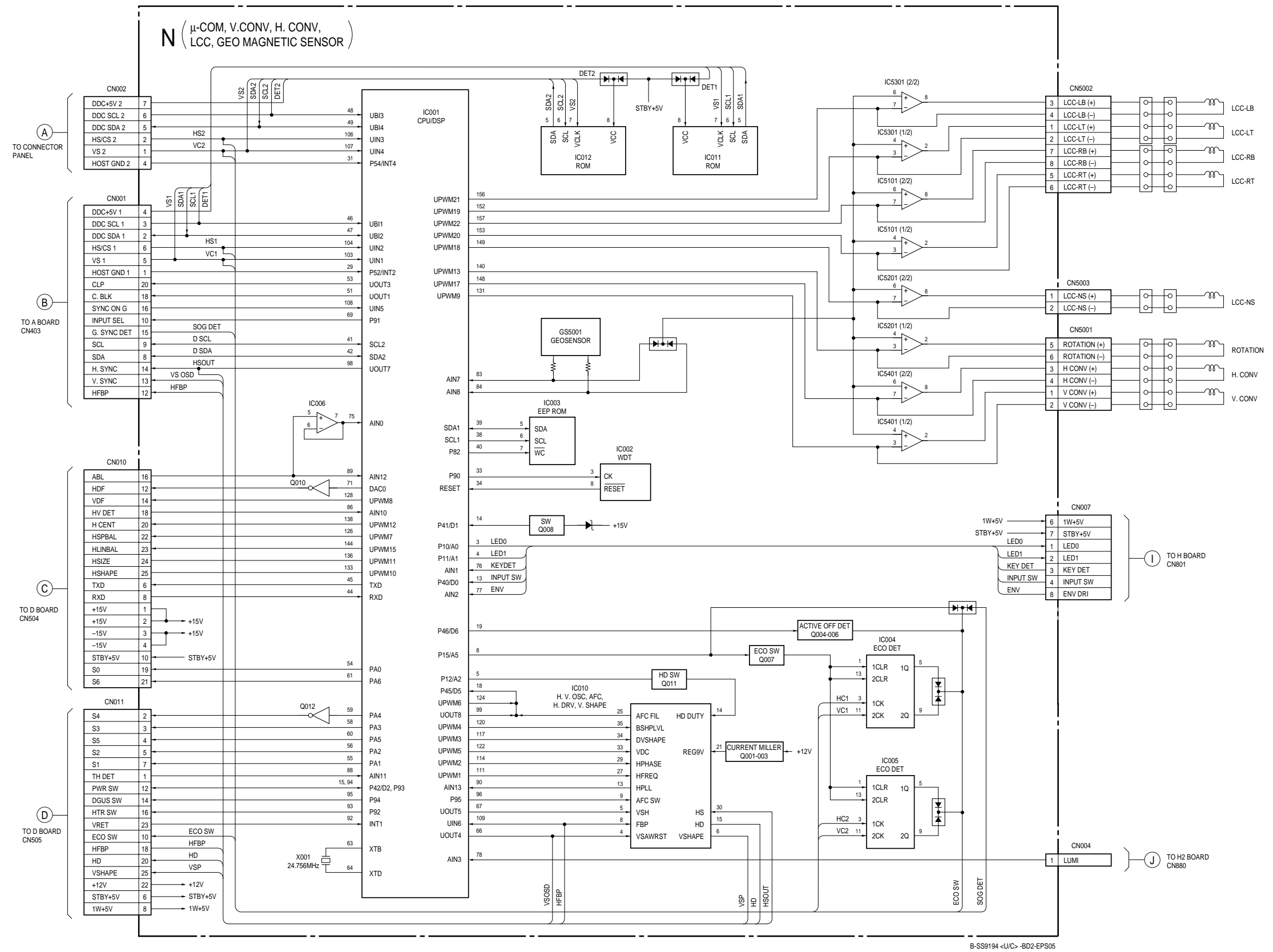
Adjust the focus volume 1 and 2 for the optimum focus.

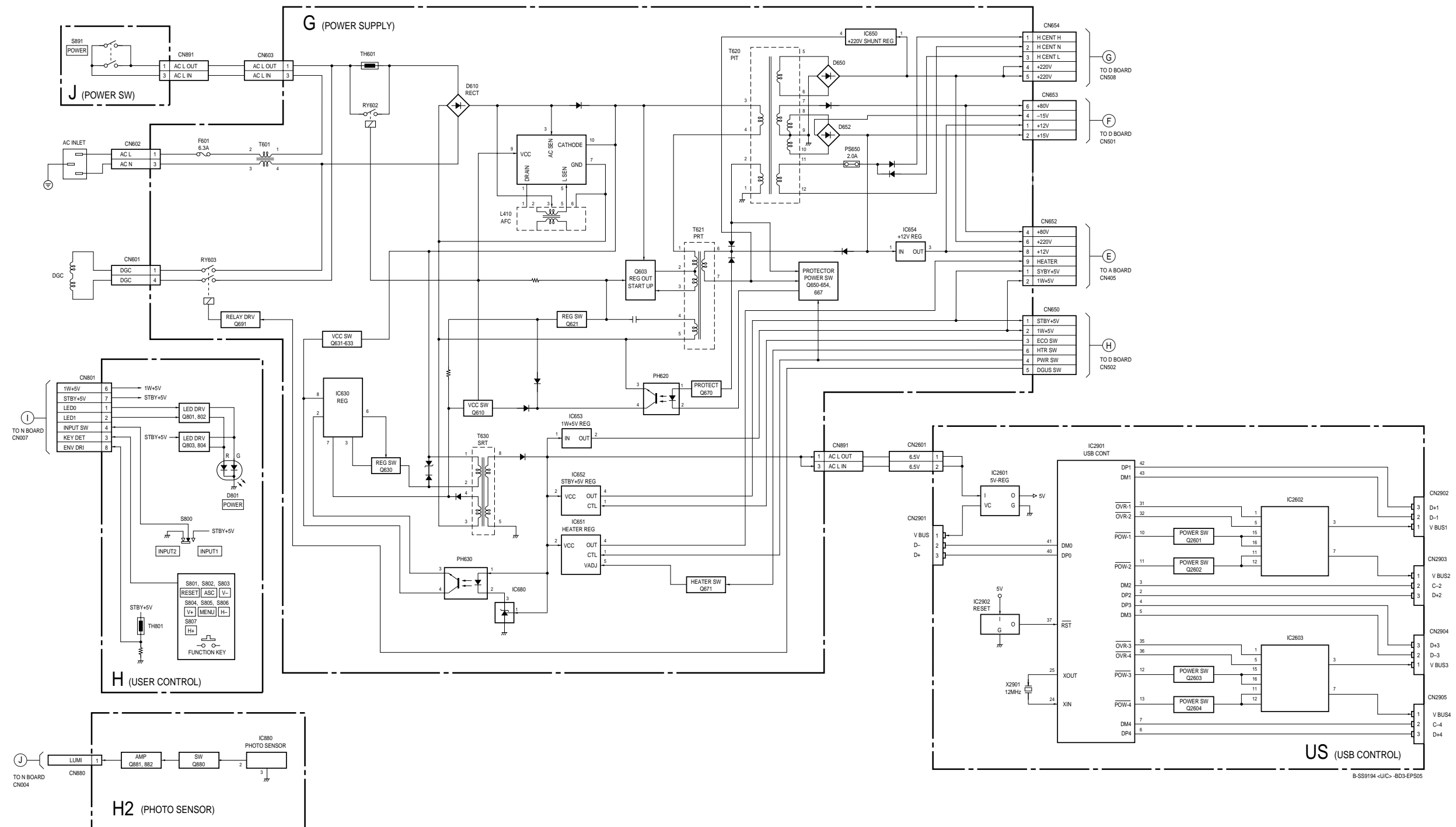


MEMO

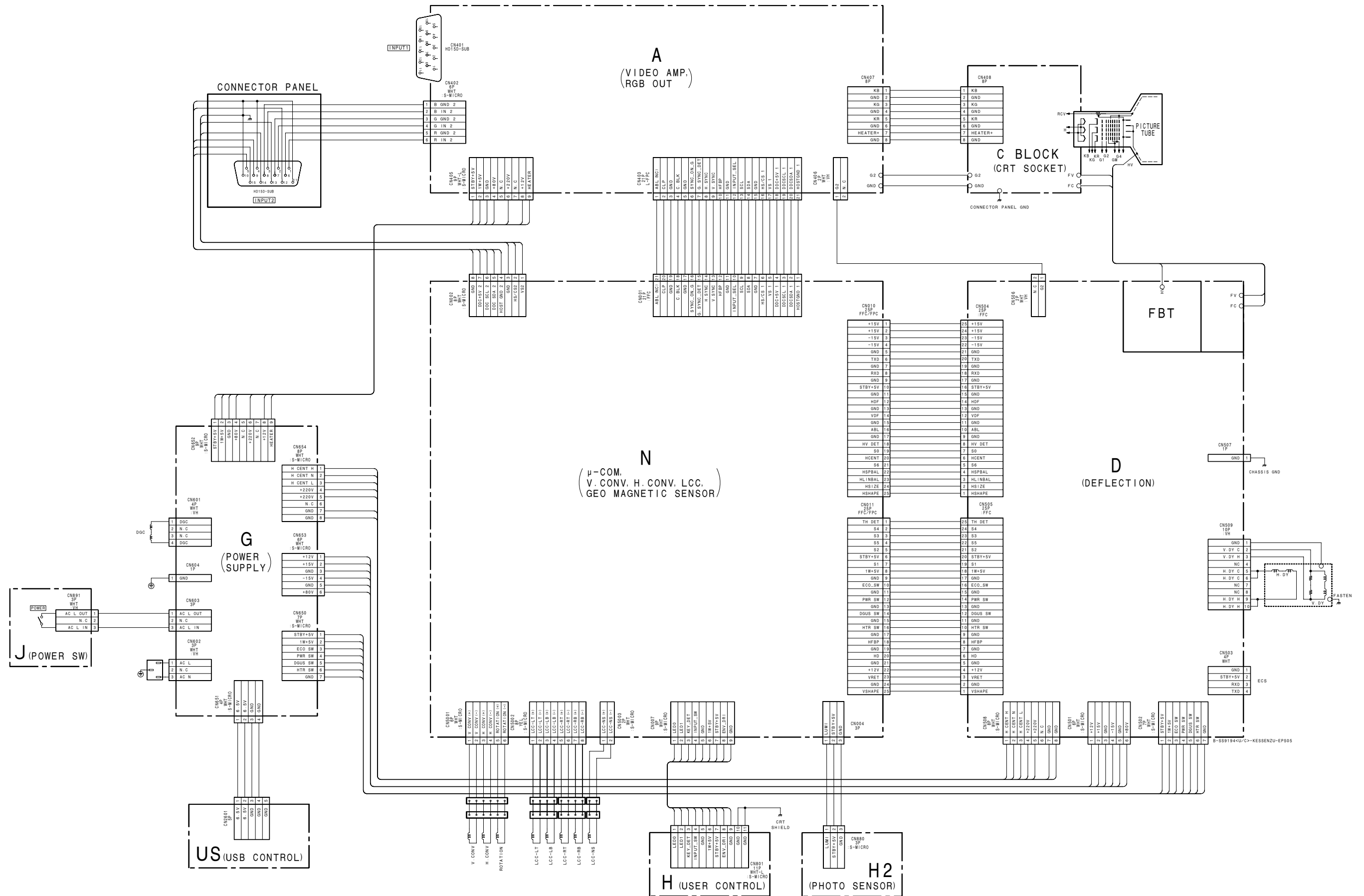
5-1. BLOCK DIAGRAMS



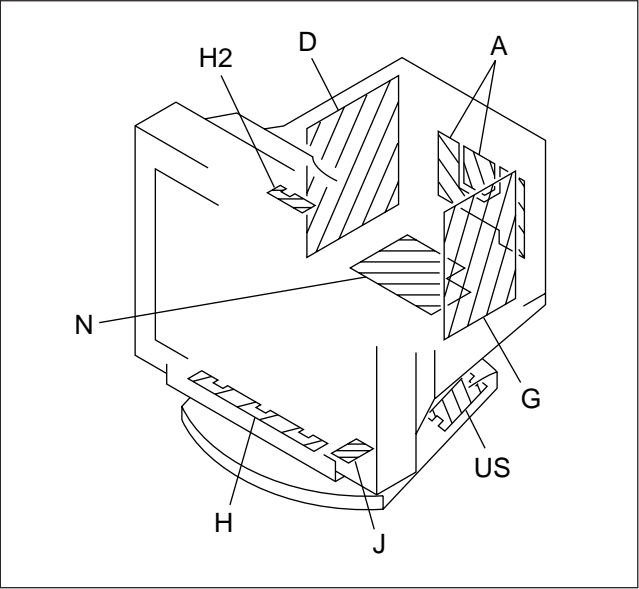




5-2. FRAME SCHEMATIC DIAGRAM



5-3. CIRCUIT BOARDS LOCATION



5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- Note:**
- All capacitors are in μF unless otherwise noted. (pF: μF) Capacitors without voltage indication are all 50 V.
 - Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power 1/4 W (CHIP : 1/10 W)

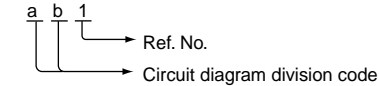
- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- \perp : earth-ground.
- : earth-chassis.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. (See page 3-1)
- When replacing the part in below table, be sure to perform the related adjustment.

Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- All voltages are in V.
- Readings are taken with a 10 M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- * : Can not be measured.
- Circled numbers are waveform references.
- : B + bus.
- : B – bus.

- Divided circuit diagram
One sheet of N board circuit diagram is divided into three sheets, each having the code N- $\text{\textcircled{a}}$ to N- $\text{\textcircled{c}}$. For example, the destination $\text{\textcircled{ab1}}$ on the code N- $\text{\textcircled{a}}$ sheet is connected to $\text{\textcircled{ab1}}$ on the N- $\text{\textcircled{c}}$ sheet.



	Part Replaced ()
HV ADJ	RV901

	Part Replaced ()
HV Regulator Circuit Check	D Board C920, IC901, R923 R924, R929, R945, RV901, T902(FBT) • Mounted D Board
HV Protector Circuit Check	D Board C922, C925, C926, D912, D914, D915, D921, Q907, Q908, R921, R922, R932, R937, R939, T902(FBT) • Mounted D Board
Beam Current Protector Circuit Check	D Board C910, C921, C933, D901, D902, D913, IC503, IC901, R901, R920, R928, R930, R931, R940, R941, T902(FBT) • Mounted D Board G Board IC652 • Mounted G Board N Board IC001, R031, R032 • Mounted N Board

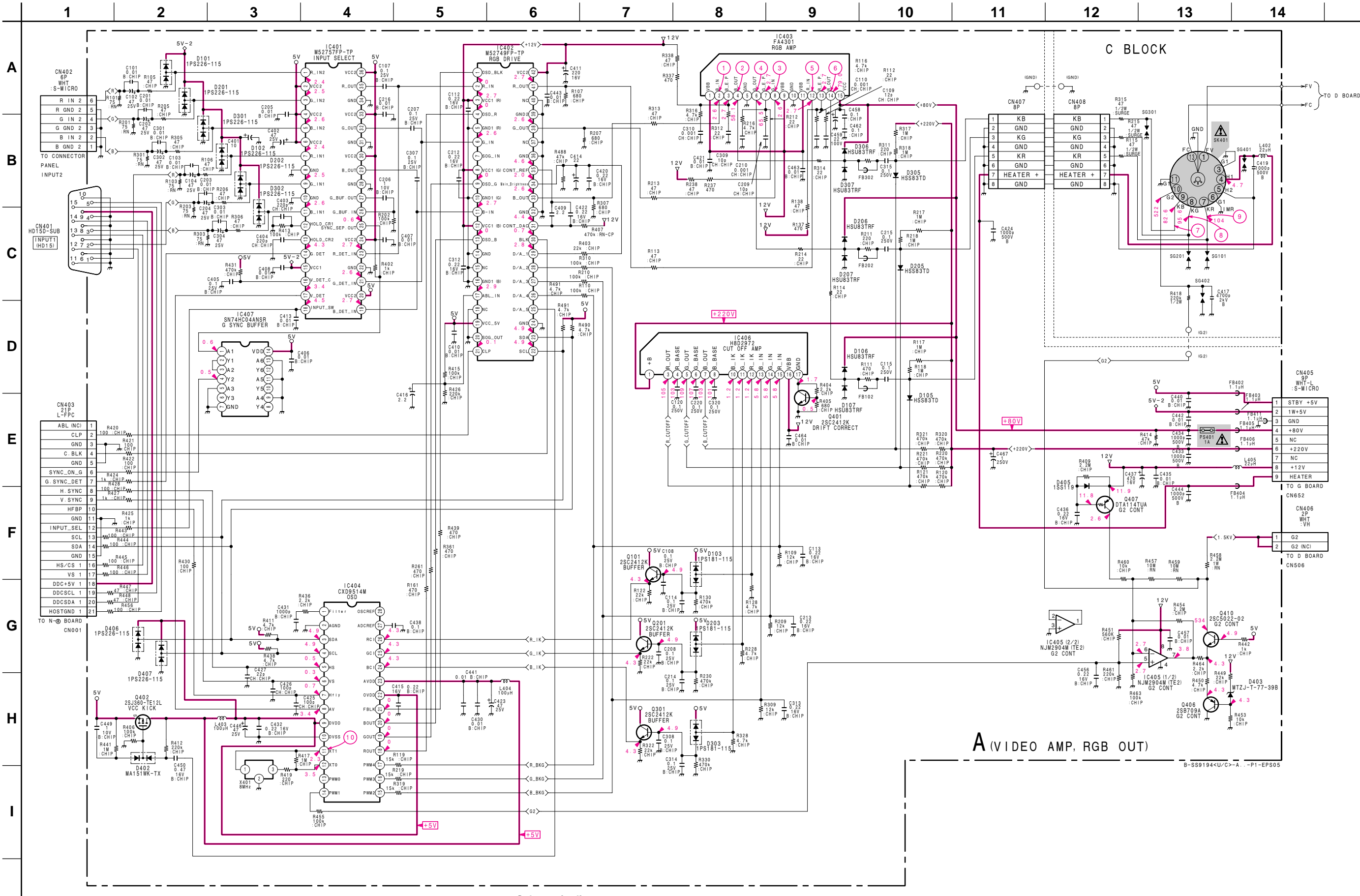
Terminal name of semiconductors in silk screen printed circuit (*)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor		Collector Base Emitter	
②	Transistor		Collector Base Emitter	
③	Diode		Cathode Anode	
④	Diode		Cathode Anode (NC)	
⑤	Diode		Cathode Anode (NC)	
⑥	Diode		Common Anode Cathode	
⑦	Diode		Common Anode Cathode	
⑧	Diode		Common Anode Anode	
⑨	Diode		Common Anode Anode	
⑩	Diode		Common Cathode Cathode	
⑪	Diode		Common Cathode Cathode	
⑫	Diode		Anode Anode Cathode	
⑬	Transistor (FET)		Drain Source Gate	
⑭	Transistor (FET)		Drain Source Gate	
⑮	Transistor (FET)		Source Drain Gate	
⑯	Transistor		Emitter Collector Base	
—	Discrete semiconductot			

(Chip semiconductors that are not actually used are included.)

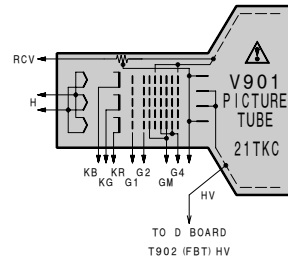
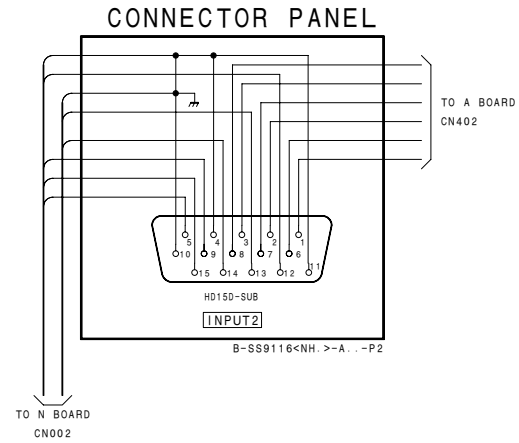
Ver.1.5

(1) Schematic Diagram of A Board

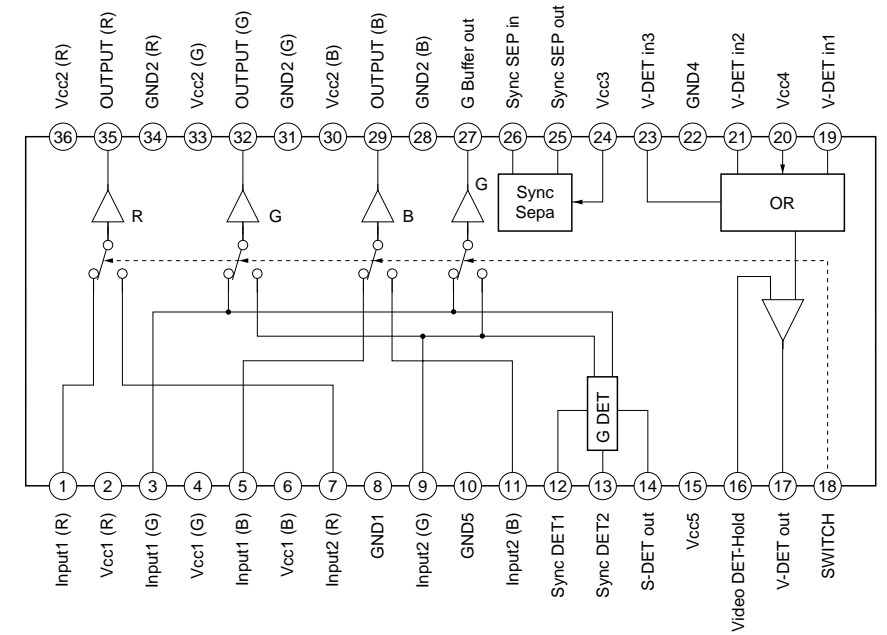


Schematic diagram

A board →

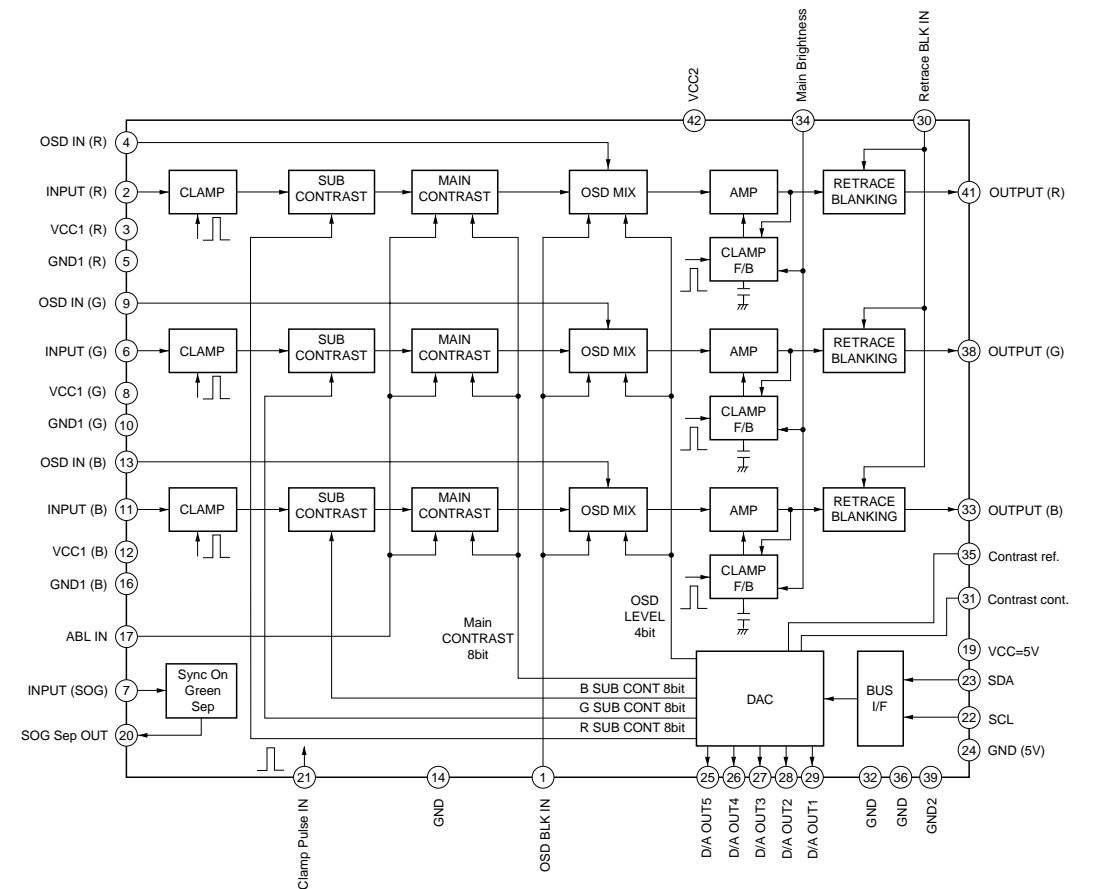
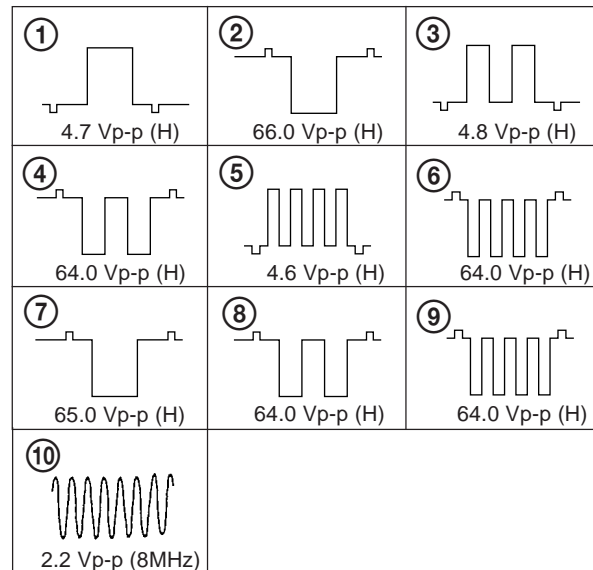


• A BOARD IC401 M52757FP



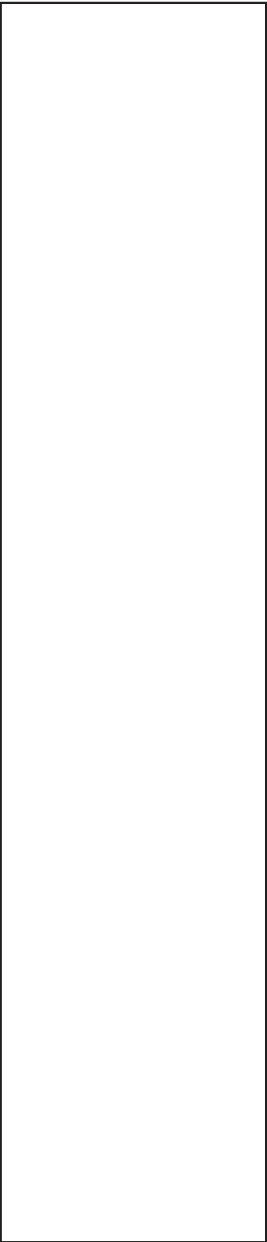
• A BOARD IC402 M52749FP

• A BOARD WAVEFORMS



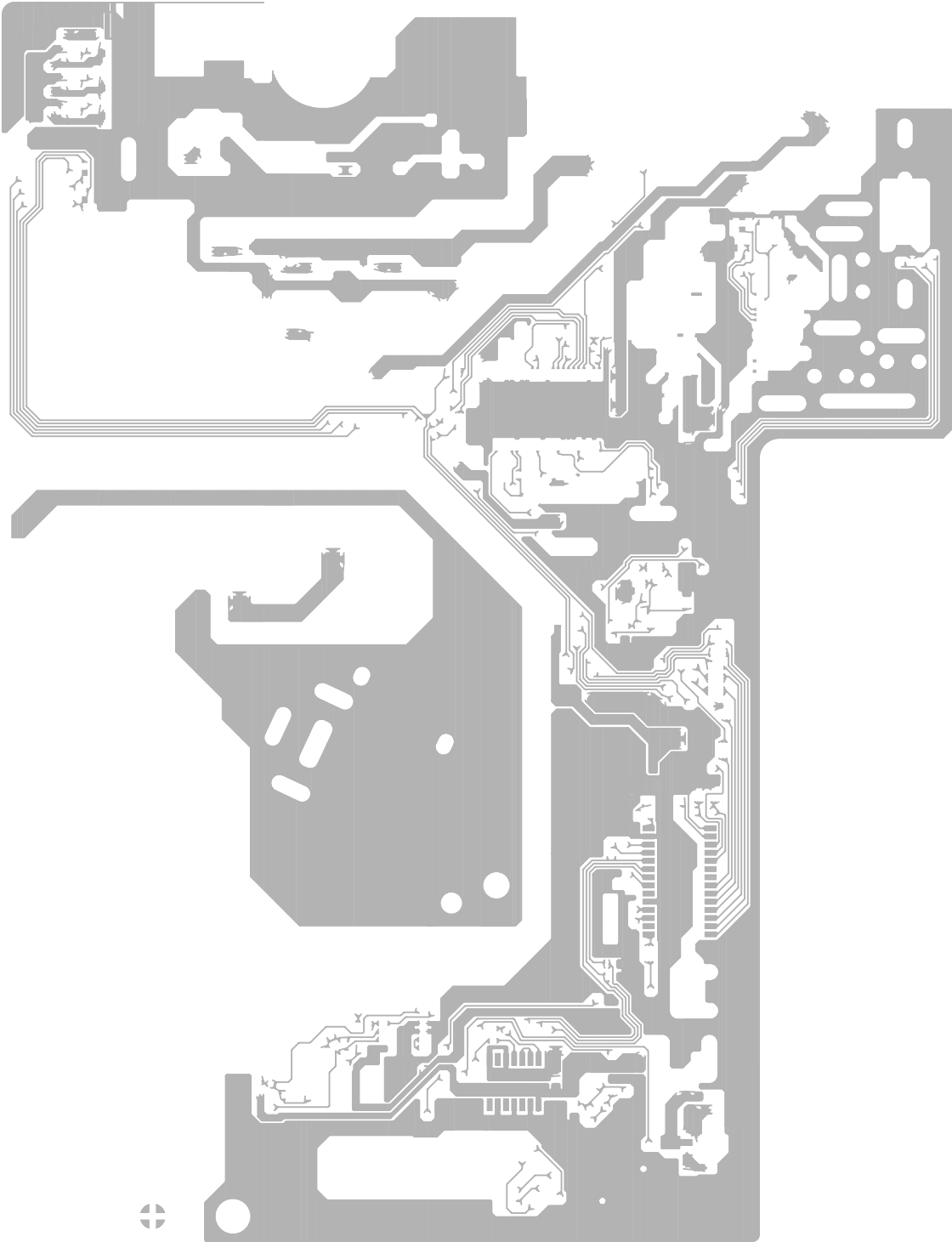
— A BOARD (Conductor Side) —

- A BOARD SEMICONDUCTOR LOCATION



※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 5-10)

— A BOARD (Component Side) —

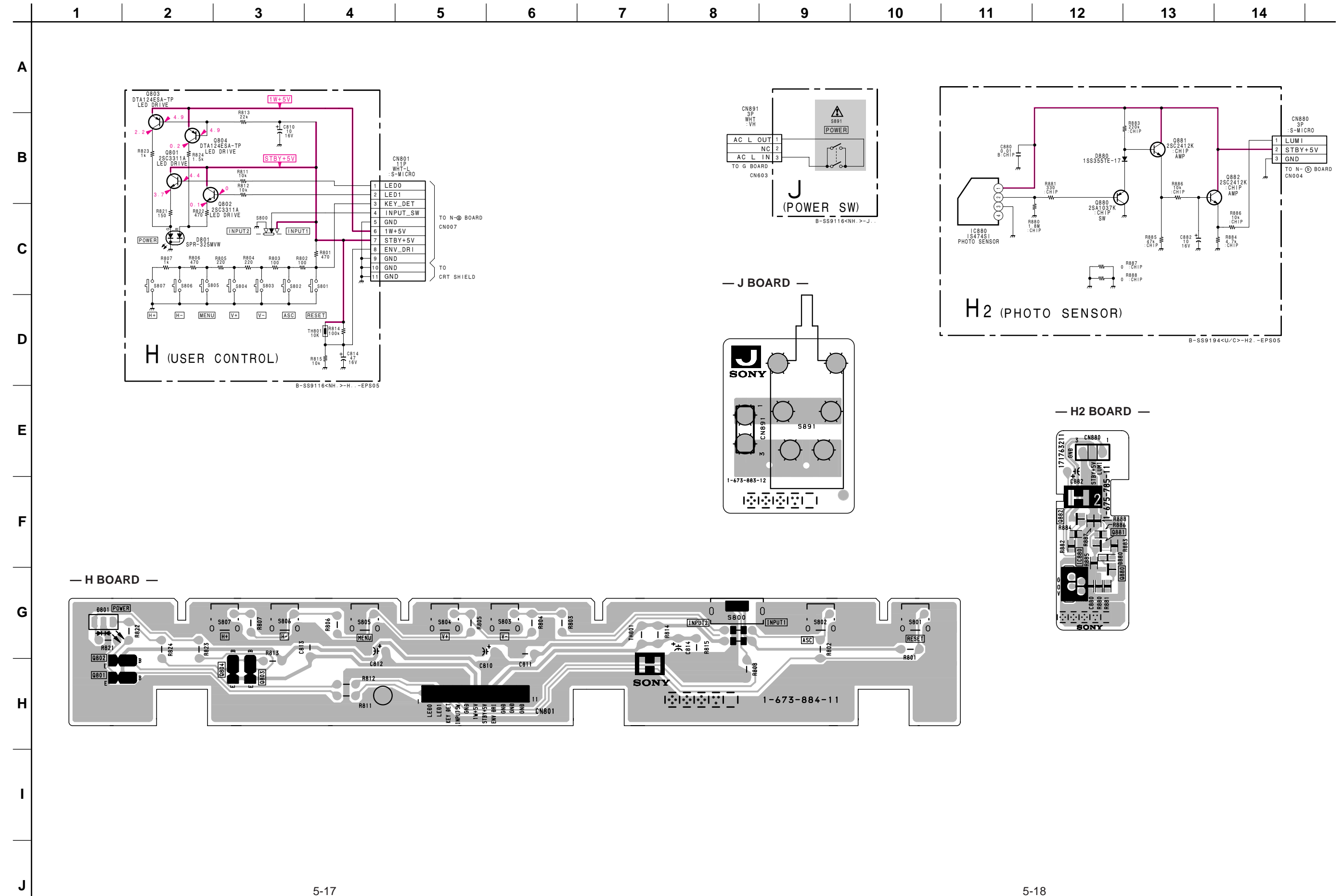


NOTE:

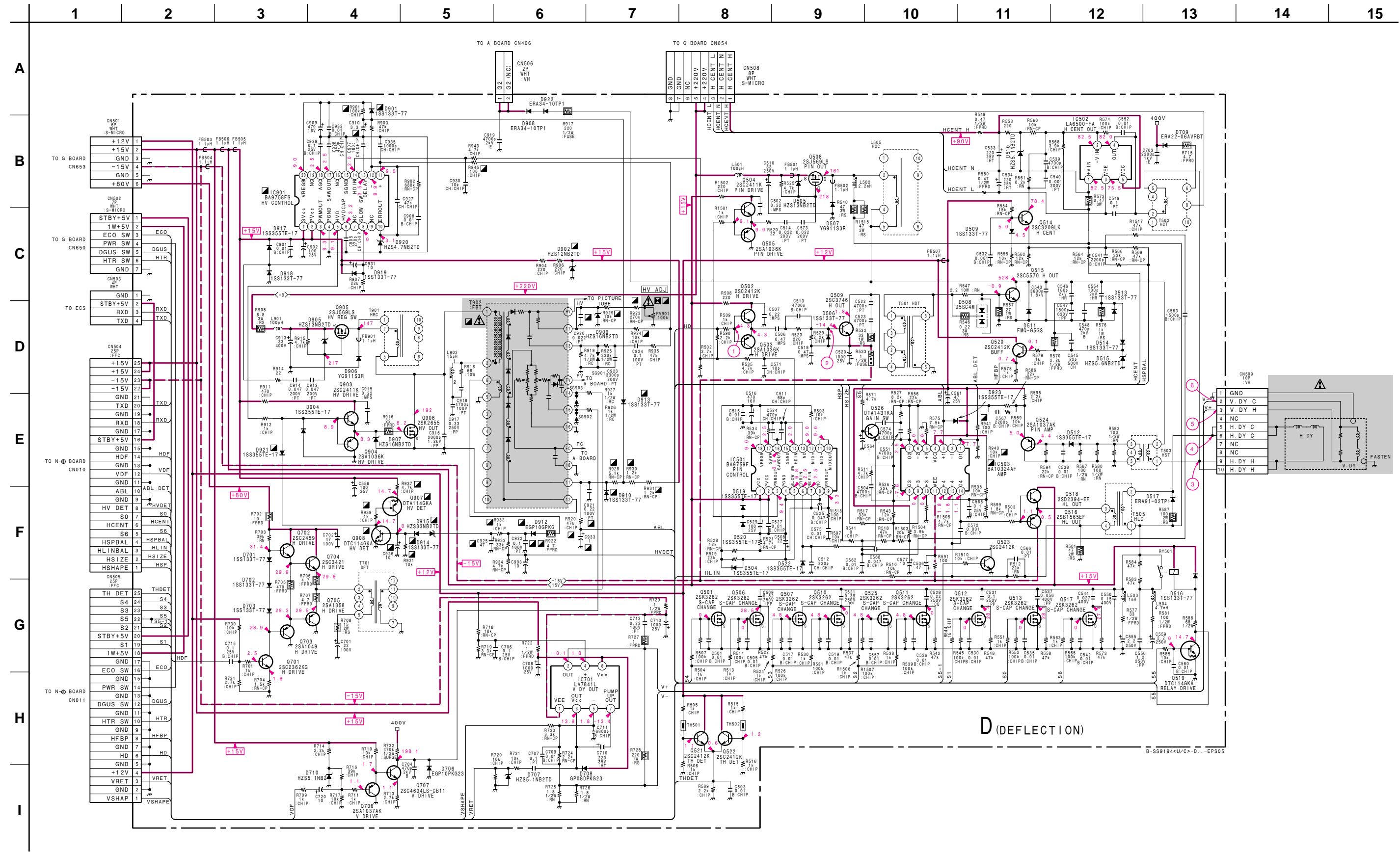
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

(2) Schematic Diagrams of H, H2, J Boards

H [USER CONTROL] **H2** [PHOTO SENSOR] **J** [POWER SW]



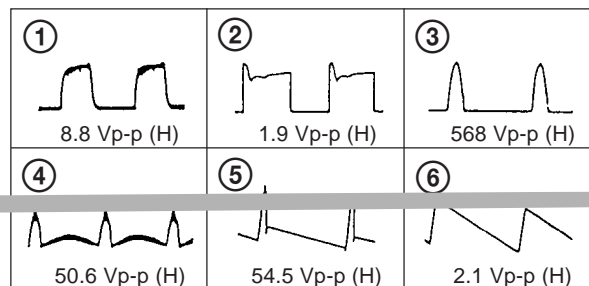
(3) Schematic Diagram of D Board



Schematic diagrams
← H H₂ J boards

Schematic diagram
D board →

- **D BOARD WAVEFORMS**

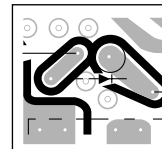
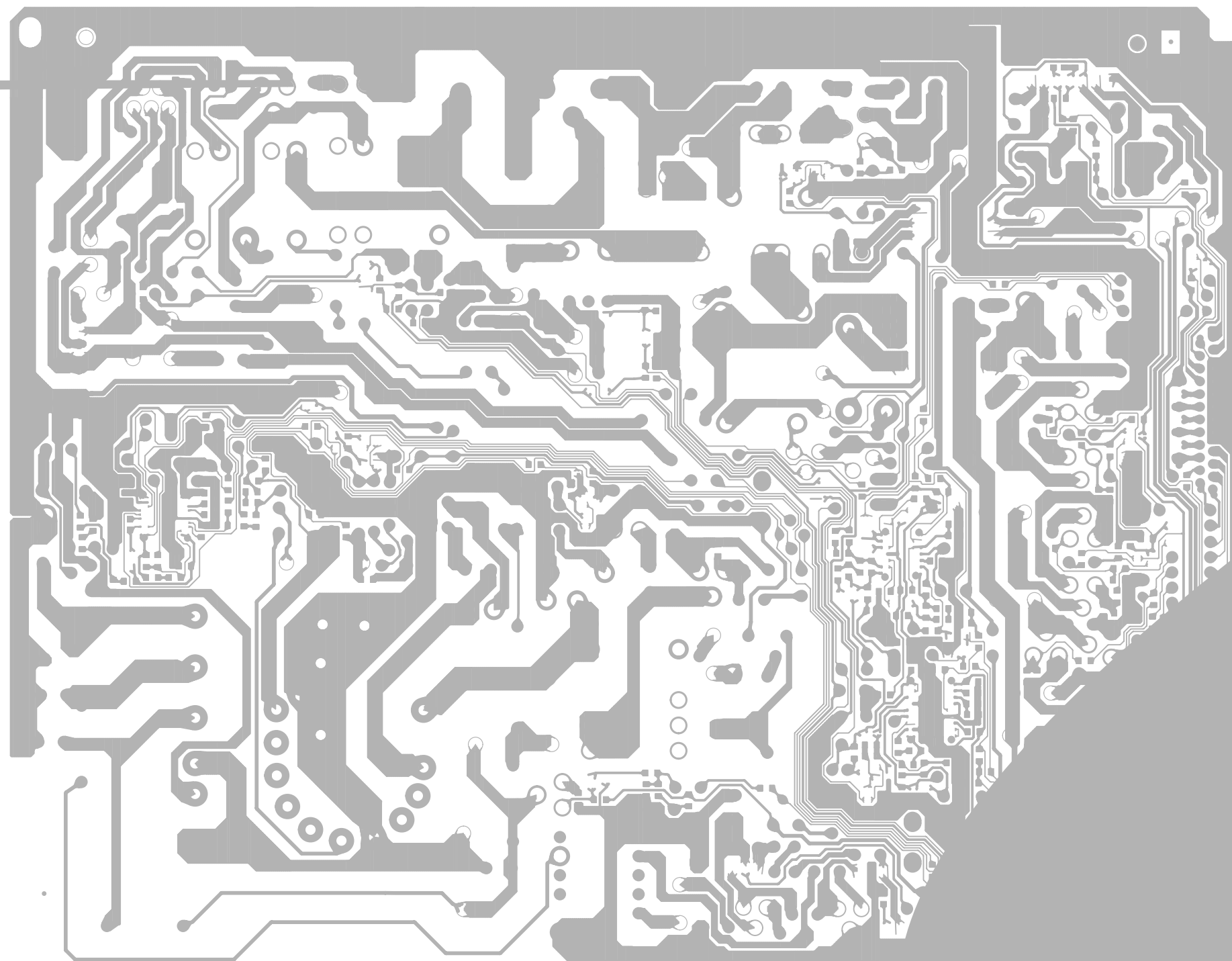


- **D BOARD SEMICONDUCTOR LOCATION**

IC		DIODE	
IC501	C-4		*
IC502	A-1	D504	D-4
IC503	C-4	D505	A-1
IC701	A-5	D506	A-4
IC901	C-1	D507	A-2
		D508	A-3
		D509	B-2
		D510	A-1
		D511	A-2
		D512	B-3
		D513	B-2
		D514	B-3
		D515	B-2
		D516	B-4
		D517	B-3
		D519	C-4
		D520	D-4
		D522	C-4
		D701	D-4
		D702	D-4
		D703	D-4
		D706	D-2
		D707	A-5
		D708	A-5
		D709	B-2
		D710	D-3
		D901	B-1
		D902	B-2
		D904	B-3
		D905	C-3
		D906	C-3
		D907	B-3
		D908	C-3
		D909	C-1
		D910	C-2
		D912	C-2
		D913	B-1
		D914	C-2
		D915	C-2
		D917	B-2
		D918	B-1
		D919	B-1
		D920	B-1
		D921	B-2
		D922	C-3
		D923	C-4
		VARIABLE RESISTOR	
		RV901	B-1

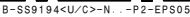
***: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 5-10)**

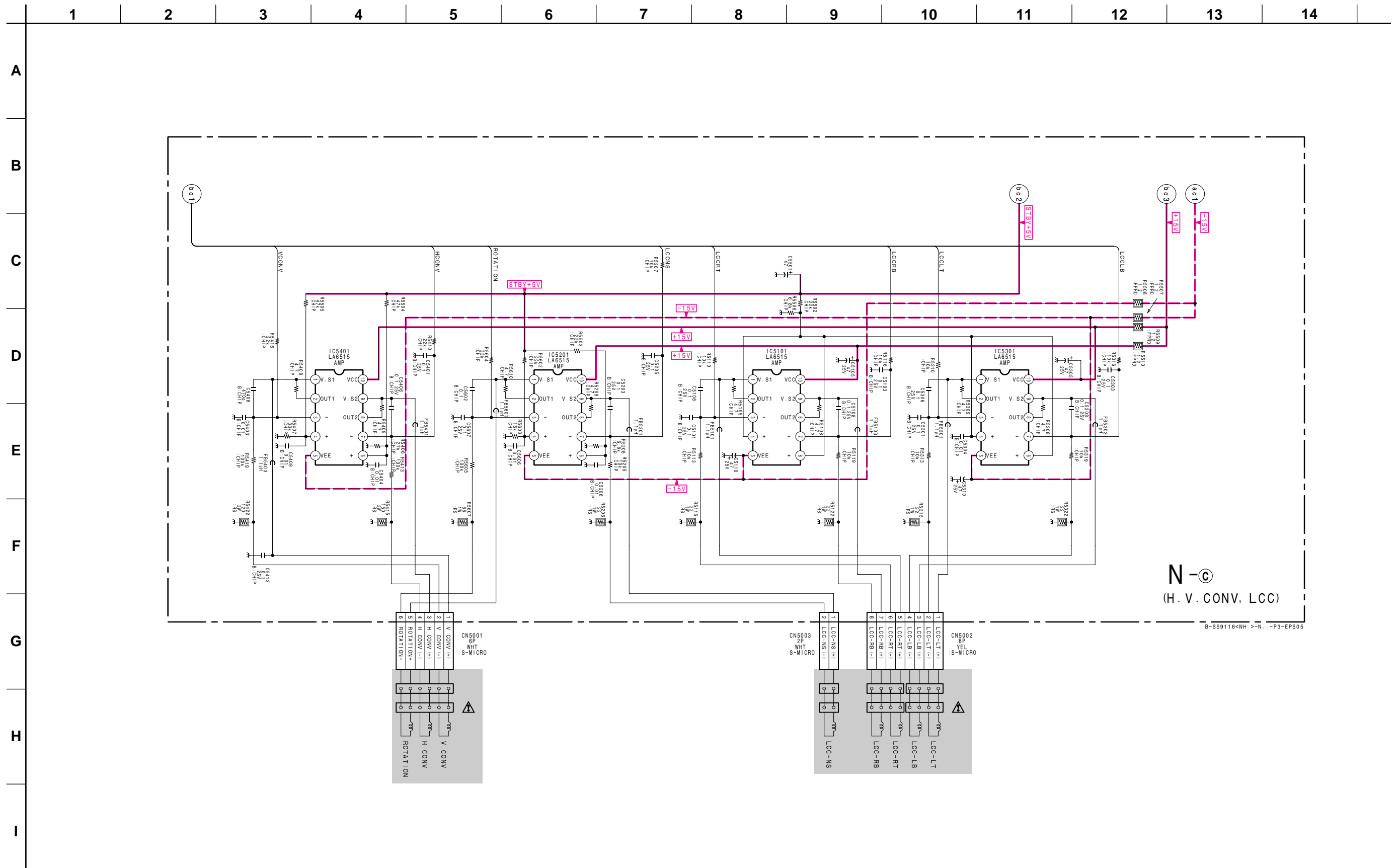
— D BOARD —



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

1





— N BOARD (Conductor Side) —

• N BOARD SEMICONDUCTOR LOCATION

IC		
	(Conductor Side)	(Component Side)
IC001		C-2
IC002		C-2
IC003		C-2
IC004		B-2
IC005		B-2
IC006		D-1
IC010		C-2
IC011	B-2	
IC012	B-2	
IC5101	A-2	A-2
IC5201	B-2	B-2
IC5301	A-1	A-2
IC5401	B-1	B-2

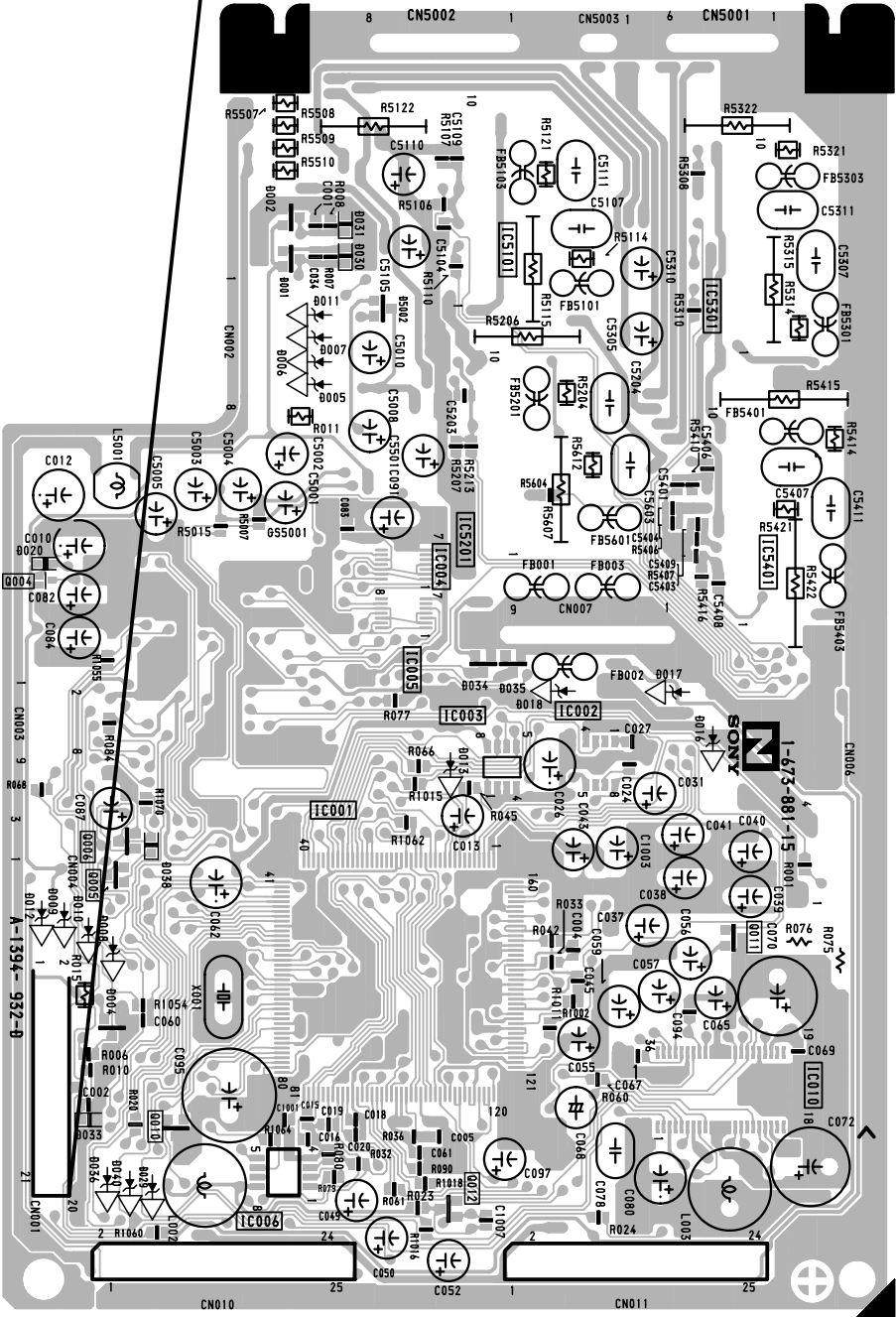
TRANSISTOR		
	(Conductor Side)	(Component Side)
Q001	C-1	①
Q002	C-1	①
Q003	C-1	①
Q004		B-1 ②
Q005		C-1 ②
Q006		C-1 ②
Q007	B-3	①
Q008	C-2	①
Q010		C-1 ①
Q011		C-2 ②
Q012		D-2 ②

DIODE		
	(Conductor Side)	(Component Side)
D001		A-1 ⑦
D002		A-1 ⑦
D003	C-3	⑥
D004		C-1 ⑦
D005	B-2	B-1 —
D006	A-2	A-1 —
D007	A-2	A-1 —
D008	C-3	C-1 —
D009	C-3	C-1 —
D010	C-3	C-1 —
D011	A-2	A-1 —
D012	C-3	C-1 —
D013	C-2	C-2 —
D014	B-2	⑧
D015	B-2	⑧
D016	B-1	B-2 —
D017	B-1	B-2 —
D018	B-1	B-2 —
D019	C-3	⑥
D020		B-1 ③
D021	C-3	③
D022	C-3	⑧
D023	B-2	⑧
D024	B-2	⑧
D025	B-1	⑥
D026	B-2	⑥
D027	D-2	③
D028	D-2	③
D029	D-3	D-1 —
D036	D-3	D-1 —
D038		C-1 —
D040		

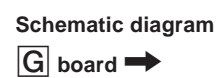
CRYSTAL		
	(Conductor Side)	(Component Side)
X001	C-2	C-1

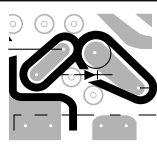
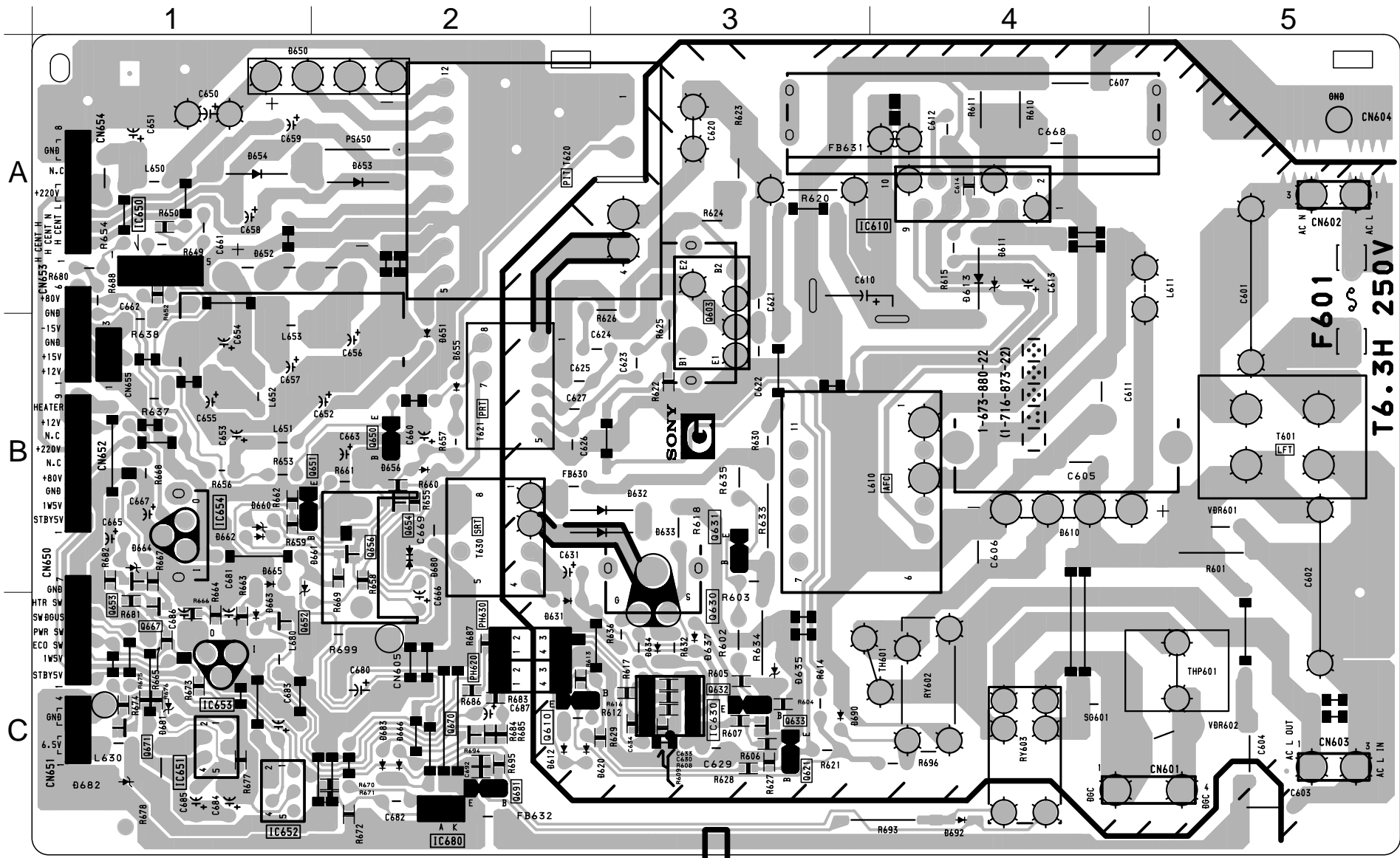
※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 5-10)

— N BOARD (Component Side) —



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
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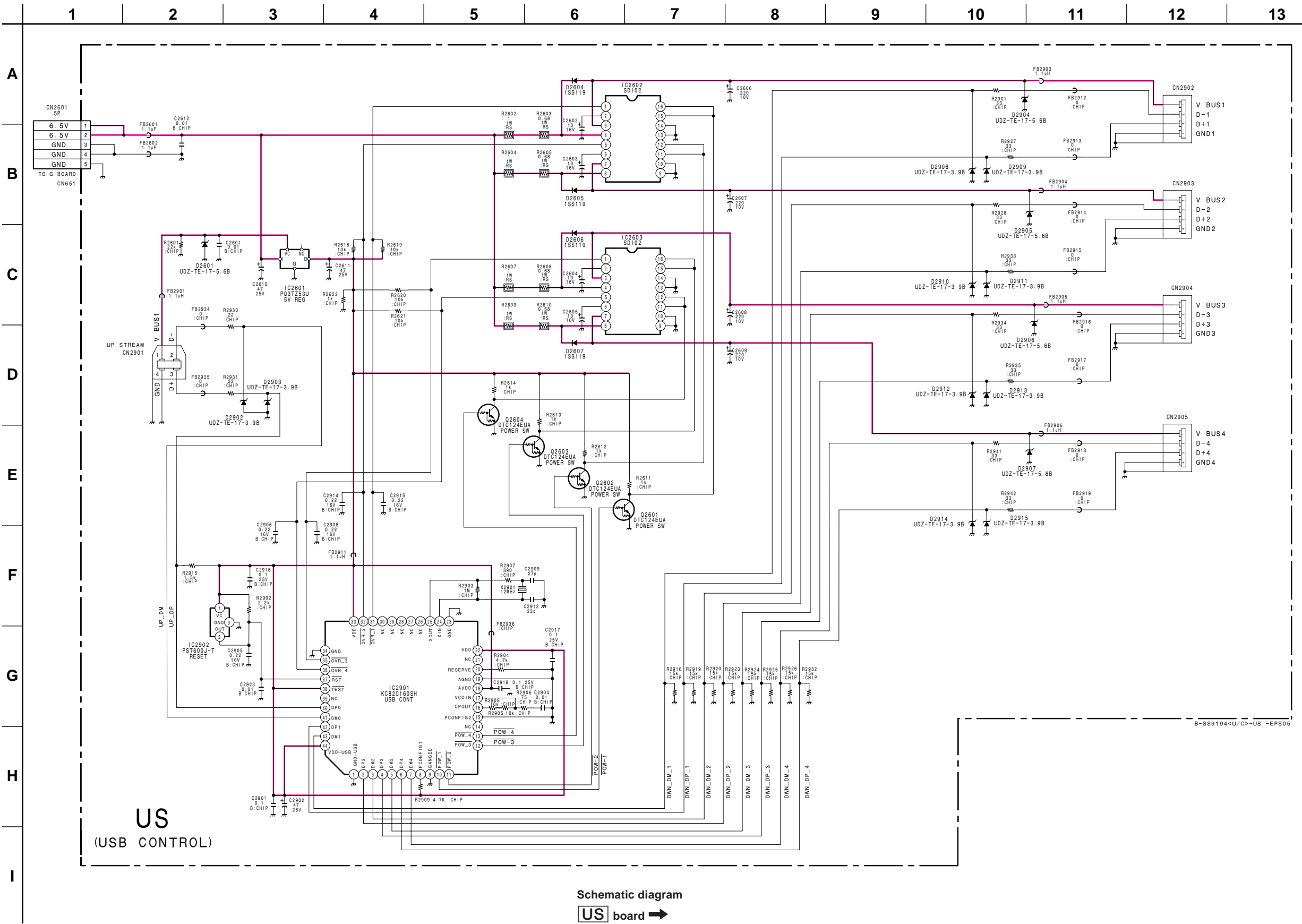
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

• G BOARD
SEMICONDUCTOR
LOCATION

IC		
IC610	A-4	
IC630	C-3	
IC650	A-1	
IC651	C-1	
IC652	C-1	
IC653	C-1	
IC654	B-1	
IC680	C-2	
TRANSISTOR		
Q603	A-3	*
Q610	C-2	-
Q621	C-3	-
Q630	C-3	-
Q631	B-3	-
Q632	C-3	-
Q633	C-3	①
Q650	B-2	-
Q651	B-1	-
Q652	C-1	①
Q653	B-1	①
Q654	B-2	①
Q667	C-1	①
Q670	C-2	①
Q671	C-1	①
Q691	C-2	-
DIODE		
D610	B-4	
D612	C-2	
D613	A-4	
D620	C-2	
D631	C-2	
D632	B-3	
D633	B-3	
D634	C-3	
D635	C-3	
D637	C-3	
D650	A-2	
D651	B-2	
D652	A-1	
D653	A-2	
D654	A-1	
D655	B-2	
D656	B-2	
D660	B-1	
D661	C-2	
D663	C-1	
D664	B-1	
D665	B-1	
D666	C-2	
D680	B-2	
D681	C-1	
D682	C-1	
D683	C-2	
D690	C-3	
D692	C-4	

※: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 5-10)

(6) Schematic Diagram of US Board



• US BOARD SEMICONDUCTOR LOCATION

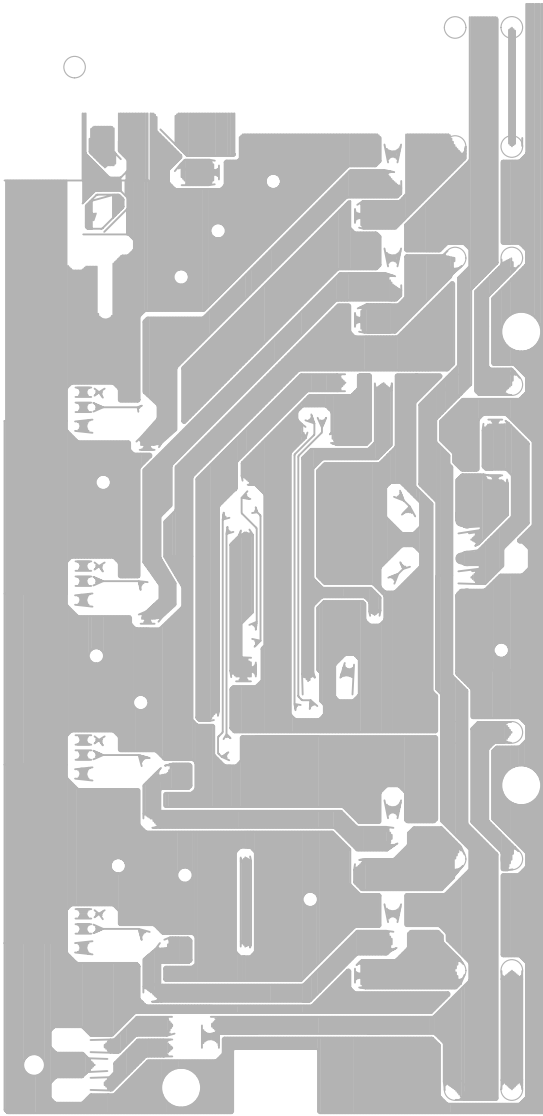
IC		
(Conductor Side)	(Component Side)	
IC2601	A-1	
IC2602	C-1	
IC2603	A-1	
IC2901	B-1	
IC2902	B-1	
TRANSISTOR		
Q2601	C-1	②
Q2602	C-1	②
Q2603	A-1	②
Q2604	A-1	②
DIODE		
(Conductor Side)	(Component Side)	*
D2601	A-2	③
D2604	C-2	C-1
D2605	C-2	C-1
D2606	A-2	A-1
D2607	A-2	A-1
D2902	A-1	③
D2903	A-1	③
D2904	C-1	③
D2905	B-1	③
D2906	B-2	③
D2907	B-2	③
D2908	C-2	③
D2909	C-2	③
D2910	B-2	③
D2911	B-2	③
D2912	B-2	③
D2913	B-2	③
D2914	B-2	③
D2915	B-2	③
CRISTAL		
(Conductor Side)	(Component Side)	
X2901	B-2	B-1

※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 5-10)

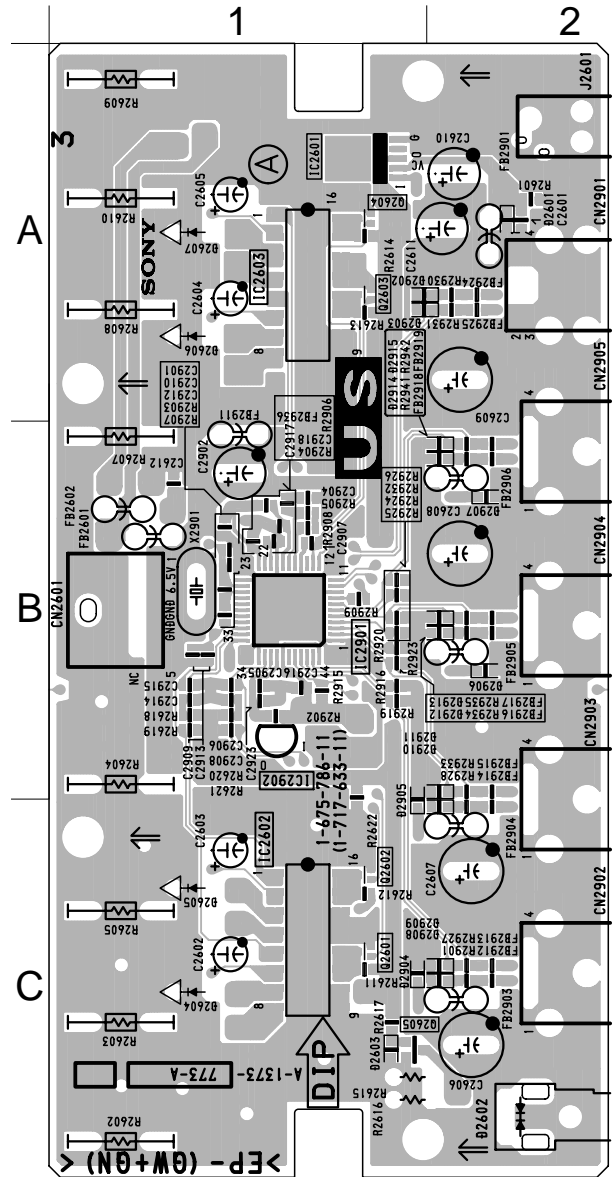
Schematic diagram
US board →

[USB CONTROL]

— US BOARD (Conductor Side) —

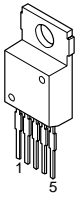


— US BOARD (Component Side) —

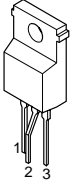


5-5. SEMICONDUCTORS

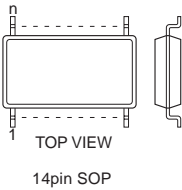
BA00AST-V5
BA05ST-V5
LA6500-FA



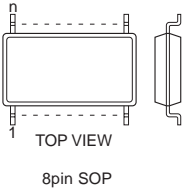
BA05T



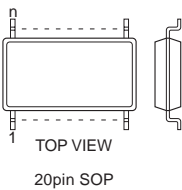
BA10324AF-E2
SN74HC04ANS
SN74HC04ANSR
TC74VHCT74AFT(EL)
XRA10324AF



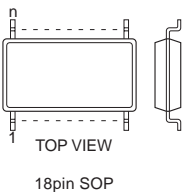
NJM2904M
NJM2904M(Te2)
TL082CPS-E20
NJM082M
24LC21AT/SN



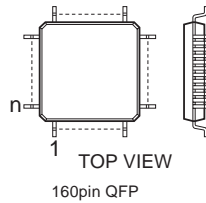
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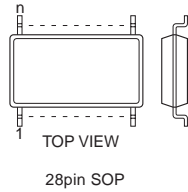
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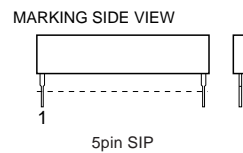
CXD8744Q



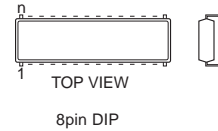
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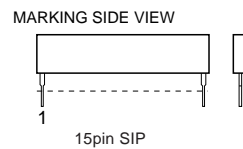
DM-57N



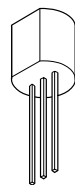
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M24C16-MN6T
MM1170BFB



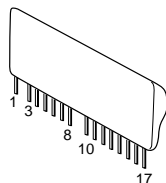
VPS17B



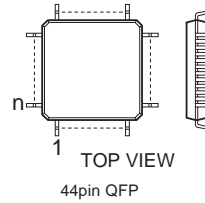
HA17431PA
HA17431PA-TZ



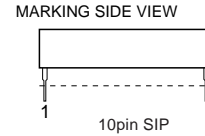
H8D2972



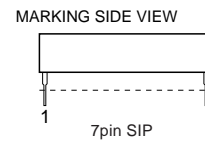
KC82C160SH



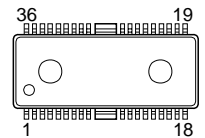
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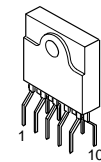
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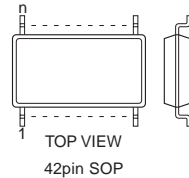
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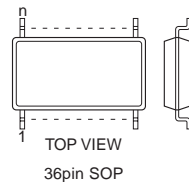
MZ1530



M52749FP-TP



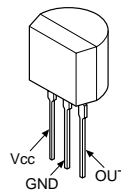
M52757FP-TP



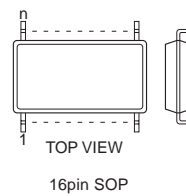
PQ3TZ53U



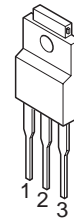
PST600J-T



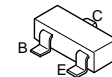
SDI02



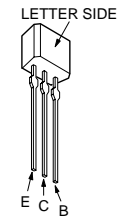
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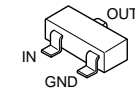
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DTA124EUA-T106
DTC114GKA
DTC114GKAT146
DTC124EK
DTC124EKA-T146
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2SA1036K-T-146-Q
2SA1037AK-T146-QR
2SA1037AK-T146-R
2SA1037K-T146-QR
2SA1162-G
2SB709A-QRS-TX
2SC1623-L5L6
2SC2411K-CQ
2SC2411K-T-146-CQ
2SC2412K-T-146-QR



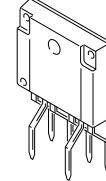
DTA124ESA
DTA124ESA-TP
2SA1175-HFE
2SA1309A-QRSTA
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2SC2784
2SC2785-HFE
2SC3311A-QRSTA



DTC124EUA-T106



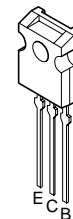
MX0842AB-F



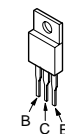
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2SA1049TP-GR
2SC2458-YGR
2SC2458TP-YGR



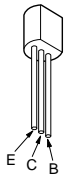
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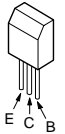
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2SC5022-02



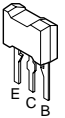
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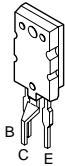
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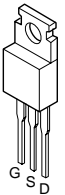
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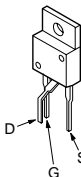
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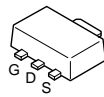
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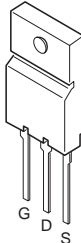
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2SK2655-01R-F165
2SK3262-01MR-F119



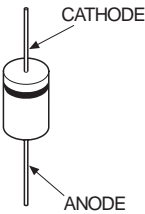
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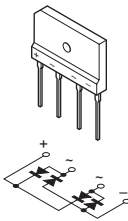
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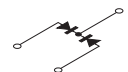
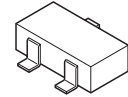
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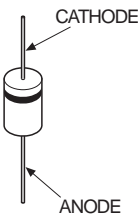
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D4SBL40
D4SBS4
D4SBS4-F



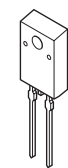
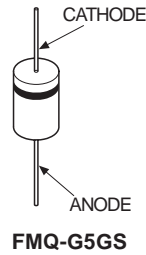
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MA151WK-TX
1SS184



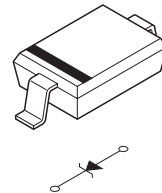
EGP10D
EGP10GPKG23
ERA91-02
ERA91-02TP1



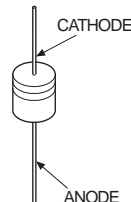
ERA22-06AVRBT
ERA22-08
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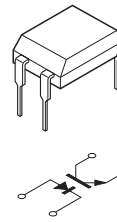
HSU83TRF



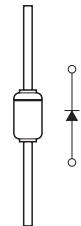
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HZS13NB2TD
HZS16NB2TD
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HZS33NB2TD
HZS4.7NB2
HZS4.7NB2TD
HZS5.1NB2TD
HZS5.6NB2TD
MTZJ-T-77-39B
MTZJ-39B
RD10ESB2
RD12ES-B2
RD12ES-T1B2
RD13ES-B2
RD20ES-B2
RD20ES-T1B2
RD22ES-B2
RD22ES-T1B2
RD5.1ESB2
RD5.6ES-T1B2
RD5.6ESB2
1SS119-25
1SS119-25TD
1SS133T-77



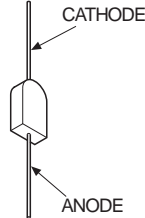
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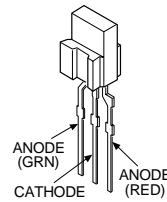
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RD9.1ES-T1B



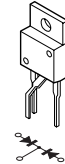
RM11A
RM11C



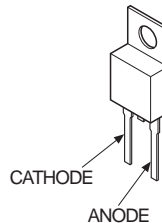
SPR-325MVW



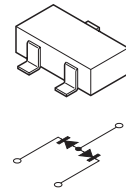
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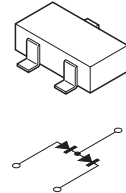
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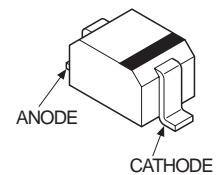
1PS181-115



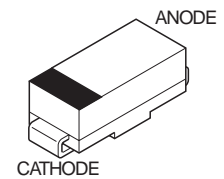
1PS226-115



MA8039
RD5.6S-B
U-DZ-TE-17-3.9B
U-DZ-TE-17-5.6B
1SS355TE-17



1SS376TE-17

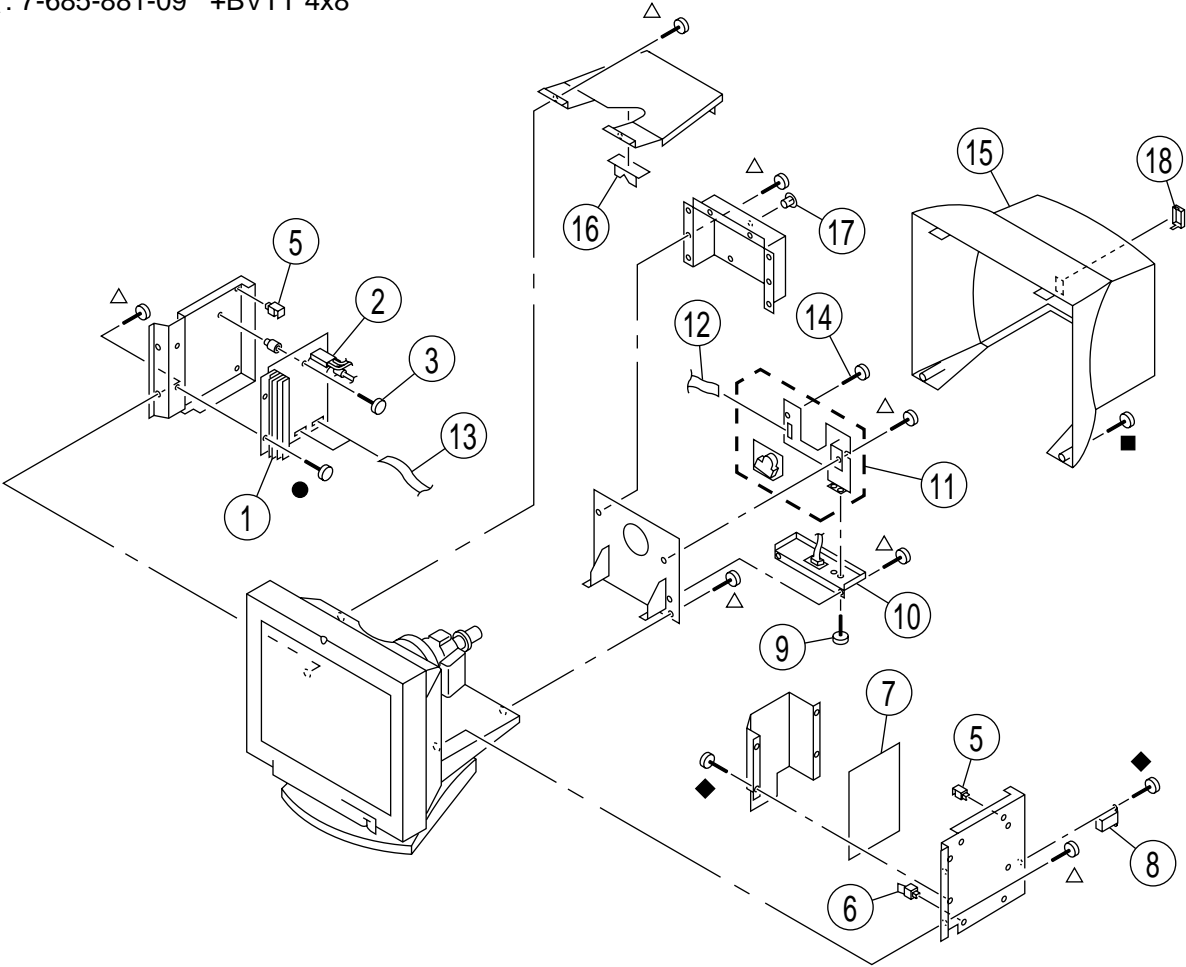


SECTION 6
EXPLODED VIEWS

- Items with no part number and no description are not stocked because they are seldom required for routine service.
 - The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The components identified \triangle marked are critical for safety.
Replace only with the part number specified.
- Les composants identifiés par la marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CHASSIS

- : 7-685-648-79 +BVTP 3x12
- : 7-685-663-71 +BVTP 4x16
- ◆: 7-685-646-79 +BVTP 3x8
- \triangle : 7-685-881-09 +BVTT 4x8



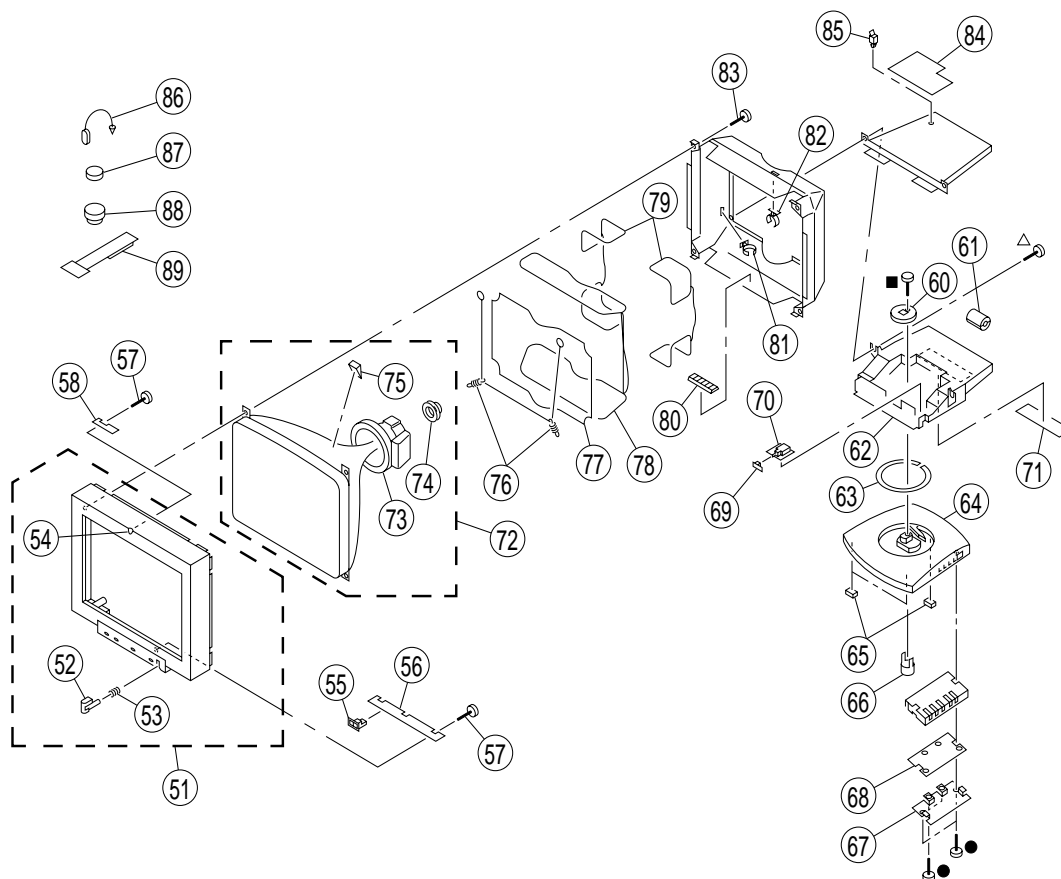
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	* 8-933-389-00	D BOARD, COMPLETE	2	10	1-694-561-11	TERMINAL BOARD ASSY, I/O	
2	\triangle X-4560-175-1	TRANSFORMER ASSY, FLYBACK (NX4502/J1D4)		11	* 8-933-397-00	A BOARD, COMPLETE	
3	4-062-115-01	SCREW +P 3.5X20 TYPE2		12	1-900-246-08	CONNECTOR ASSY (F)	
5	* 3-701-903-11	HOLDER, PRINTED CIRCUIT BOARD		13	1-900-250-06	CONNECTOR ASSY (F)	
6	4-070-730-01	HOLDER, PRINTED CIRCUIT BOARD		14	4-389-025-11	SCREW (M4) (EXT TOOTH WASHER)	
7	* 8-933-398-00	G BOARD, COMPLETE		15	X-4037-099-1	CABINET ASSY	
8	\triangle 1-251-382-31	INLET, AC 3P (WITH NOISE FILTER)		16	* 4-063-711-01	SUPPORT, HV CABLE	
9	4-070-122-01	SCREW (HD15)		17	* 4-069-570-01	SPACER, PRINTED CIRCUIT BOARD	
				18	* 4-060-358-91	COVER, ECS	

6-2. PICTURE TUBE

- : 7-685-663-71 +BVTP 4x16
 △ : 7-685-881-09 +BVTT 4x8
 ● : 7-685-647-79 +BVTP 3x10

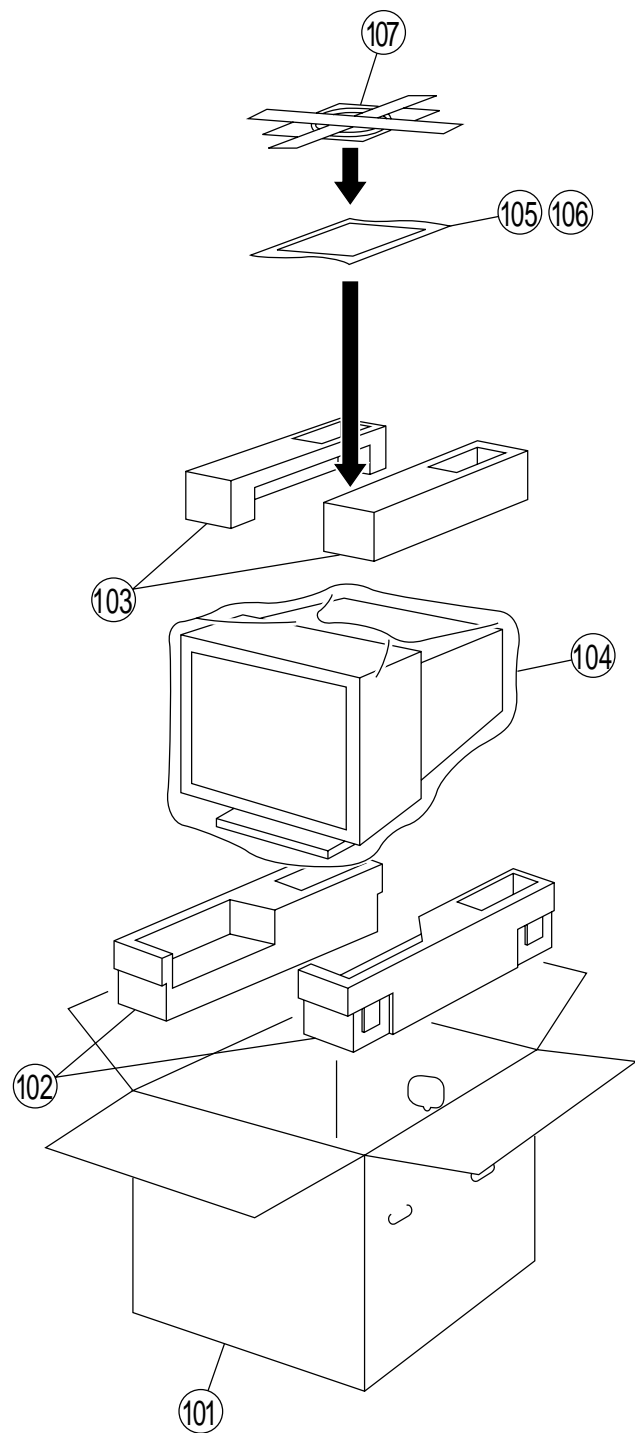
The components identified △ marked are critical for safety.
Replace only with the part number specified.

Les composants identifiés par la marque △ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4037-100-1	BEZEL ASSY	52-54	71	* 4-073-079-11	LABEL, INFORMATION [AUS]	
52	4-073-099-01	BUTTON, POWER		72	8-738-813-61	ITC ASSY (21 TKC-R1)	73-75
53	4-073-098-01	SPRING, COMPRESSION				[U/C, AEP, UK, NH, J, CH]	
54	4-072-373-01	COVER, SENSOR		72	8-738-821-61	ITC ASSY (21 TKC-RS1) [AUS]	73-75
55	4-072-371-01	COVER, SLIDE SWITCH		73	8-451-509-11	DEFLECTION YOKE (Y21TKM-M)	
56	* 8-933-391-00	H BOARD, COMPLETE		74	△ 1-452-912-61	NECK ASSEMBLY (NA-2914)	
57	4-029-432-01	SCREW (3X12), (+) (BVWHTP)		75	2-162-100-21	SPACER, DEFLECTION YOKE	
58	* 8-933-451-00	H2 BOARD, COMPLETE		76	* 4-047-316-01	SPRING, EXTENSION	
#1 59	A-1501-558-A	STAND COMPLETE ASSY	60-68	77	△ 1-419-130-21	COIL, LANDING CORRECTION	
60	4-061-396-01	STOPPER (A)		78	△ 1-419-128-21	COIL, DEGAUSSING	
61	* 1-543-830-11	CLAMP, SLEEVE FERRITE		79	△ 1-419-129-21	COIL, LANDING CORRECTION	
62	4-072-381-01	COVER, BOTTOM		80	4-062-670-01	SPACER, CRT	
63	4-063-397-01	RING, TILT SWIVEL		81	4-071-175-01	HOLDER, DGC	
64	4-072-379-01	BASE, STAND		82	4-041-021-02	HOLDER, DEGAUSE COIL	
65	* 4-061-996-01	CUSHION		83	4-365-808-01	SCREW (5), TAPPING	
66	4-062-381-01	STOPPER (B)		84	* 8-933-399-00	N BOARD, COMPLETE	
67	4-072-376-01	COVER, STAND		85	4-070-730-01	HOLDER, PRINTED CIRCUIT BOARD	
68	* 8-933-452-00	US BOARD, COMPLETE		86	4-308-870-00	CLIP, LEAD WIRE	
69	* 4-394-972-21	CAP, POWER		87	1-452-032-00	MAGNET, DISK; 10mmφ	
70	* 8-933-396-00	J BOARD, COMPLETE		88	1-452-094-00	MAGNET, ROTATABLE DISK; 15mmφ	
71	* 4-073-079-01	LABEL, INFORMATION		89	4-051-736-21	PIECE A (90), CONV. CORRECT	
		[U/C, AEP, UK, NH, J, CH]					

6-3. PACKING MATERIALS



The components identified \triangle marked are critical for safety.
Replace only with the part number specified.

Les composants identifiés par la marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101	* 4-071-946-01	INDIVIDUAL CARTON		106	1-777-626-41	CABLE, USB	
#2 101	* 4-078-471-01	INDIVIDUAL CARTON [CH only]		107	\triangle 1-782-783-21	CORD SET, POWER [U/C]	
102	* 4-071-941-01	CUSHION (LOWER) (ASSY)		107	\triangle 1-782-784-31	CORD SET, POWER [AEP]	
103	* 4-071-940-01	CUSHION (UPPER) (ASSY)		107	\triangle 1-782-785-21	CORD SET, POWER [AUS]	
104	* 4-041-927-31	BAG, POLYETHYLENE		107	\triangle 1-782-786-31	CORD SET, POWER [J]	
105	1-791-737-11	CABLE ASSY (15P DSUB CONNECTOR X2)		107	\triangle 1-791-891-11	CORD SET, POWER [UK]	
				#2 107	\triangle 1-783-481-31	CORD SET, POWER [CH]	

SECTION 7

ELECTRICAL PARTS LIST

A

NOTE:

The components identified \triangle marked are critical for safety.
Replace only with the part number specified.

Les composants identifiés par la marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

The components identified by \boxtimes in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

RESISTORS

- All resistors are in ohms
- F : nonflammable

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	* 8-933-397-00	A BOARD, COMPLETE *****		C310	1-163-275-11	CERAMIC CHIP 0.001 μ F	5% 50V
	7-682-950-01	SCREW +PSW 3X12 (IC403)		C312	1-164-489-11	CERAMIC CHIP 0.22 μ F	10% 16V
	<CAPACITOR>			C313	1-164-489-11	CERAMIC CHIP 0.22 μ F	10% 16V
C101	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C314	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V
C102	1-104-664-11	ELECT 47 μ F	20% 25V	C315	1-104-341-11	FILM 0.1 μ F	10% 250V
C103	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C320	1-104-341-11	FILM 0.1 μ F	10% 250V
C104	1-104-664-11	ELECT 47 μ F	20% 25V	C401	1-126-964-11	ELECT 10 μ F	20% 50V
C107	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V	C402	1-104-664-11	ELECT 47 μ F	20% 25V
C108	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V	C403	1-163-259-91	CERAMIC CHIP 220pF	5% 50V
C109	1-163-229-11	CERAMIC CHIP 12pF	5% 50V	C404	1-163-259-91	CERAMIC CHIP 220pF	5% 50V
C110	1-163-275-11	CERAMIC CHIP 0.001 μ F	5% 50V	C405	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V
C112	1-164-489-11	CERAMIC CHIP 0.22 μ F	10% 16V	C406	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C113	1-164-489-11	CERAMIC CHIP 0.22 μ F	10% 16V	C407	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C114	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V	C408	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C115	1-104-341-11	FILM 0.1 μ F	10% 250V	C409	1-109-953-11	ELECT 2.2 μ F	20% 50V
C120	1-104-341-11	FILM 0.1 μ F	10% 250V	C410	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C201	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C411	1-126-934-11	ELECT 220 μ F	20% 25V
C202	1-104-664-11	ELECT 47 μ F	20% 25V	C413	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C203	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C414	1-126-965-11	ELECT 22 μ F	20% 50V
C204	1-104-664-11	ELECT 47 μ F	20% 25V	C415	1-164-489-11	CERAMIC CHIP 0.22 μ F	10% 16V
C205	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C416	1-126-961-11	ELECT 2.2 μ F	20% 50V
C206	1-109-982-11	CERAMIC CHIP 1 μ F	10% 10V	C417	1-104-574-11	CERAMIC 0.0047 μ F	10% 2KV
C207	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V	C419	1-162-318-11	CERAMIC 0.001 μ F	10% 500V
C208	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V	C420	1-164-489-11	CERAMIC CHIP 0.22 μ F	10% 16V
C209	1-163-227-11	CERAMIC CHIP 10pF	0.5pF 50V	C421	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C210	1-163-275-11	CERAMIC CHIP 0.001 μ F	5% 50V	C422	1-164-489-11	CERAMIC CHIP 0.22 μ F	10% 16V
C212	1-164-489-11	CERAMIC CHIP 0.22 μ F	10% 16V	C423	1-104-664-11	ELECT 47 μ F	20% 25V
C213	1-164-489-11	CERAMIC CHIP 0.22 μ F	10% 16V	C424	1-162-318-11	CERAMIC 0.001 μ F	10% 500V
C214	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V	C425	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C215	1-104-341-11	FILM 0.1 μ F	10% 250V	C426	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C216	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C427	1-163-235-11	CERAMIC CHIP 22pF	5% 50V
C220	1-104-341-11	FILM 0.1 μ F	10% 250V	C430	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C301	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C431	1-163-275-11	CERAMIC CHIP 0.001 μ F	5% 50V
C302	1-104-664-11	ELECT 47 μ F	20% 25V	C432	1-164-489-11	CERAMIC CHIP 0.22 μ F	10% 16V
C303	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C433	1-162-318-11	CERAMIC 0.001 μ F	10% 500V
C304	1-104-664-11	ELECT 47 μ F	20% 25V	C434	1-162-318-11	CERAMIC 0.001 μ F	10% 500V
C307	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V	C435	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C308	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V	C436	1-164-489-11	CERAMIC CHIP 0.22 μ F	10% 16V
C309	1-163-227-11	CERAMIC CHIP 10pF	0.5pF 50V	C437	1-126-935-11	ELECT 470 μ F	20% 16V
				C438	1-115-339-11	CERAMIC CHIP 0.1 μ F	10% 50V
				C440	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
				C441	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
				C442	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V



Les composants identifiés par la marque \triangle
sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant
le numéro spécifié.

The components identified \triangle marked are
critical for safety.
Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C443	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	FB404	1-412-911-11	FERRITE 1.1 μ H	
C444	1-162-318-11	CERAMIC 0.001 μ F	10% 500V	FB405	1-412-911-11	FERRITE 1.1 μ H	
C446	1-104-664-11	ELECT 47 μ F	20% 25V	FB406	1-412-911-11	FERRITE 1.1 μ H	
C449	1-109-982-11	CERAMIC CHIP 1 μ F	10% 10V	FB411	1-412-911-11	FERRITE 1.1 μ H	
C450	1-107-823-11	CERAMIC CHIP 0.47 μ F	10% 16V				
C456	1-164-489-11	CERAMIC CHIP 0.22 μ F	10% 16V		<IC>		
C457	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	IC401	8-759-584-87	IC M52757FP-TP	
C458	1-115-339-11	CERAMIC CHIP 0.1 μ F	10% 50V	IC402	8-759-584-86	IC M52749FP-TP	
C459	1-128-560-11	ELECT 22 μ F	20% 100V	IC403	8-749-015-91	IC FA4301	
C462	1-115-339-11	CERAMIC CHIP 0.1 μ F	10% 50V	IC404	8-759-585-72	IC CXD9514M	
C463	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	IC405	8-759-701-01	IC NJM2904M	
C464	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	IC406	8-749-015-92	IC H8D2972	
C467	1-107-957-11	ELECT 1 μ F	20% 250V	IC407	8-759-925-74	IC SN74HC04ANS	
	<CONNECTOR>				<COIL>		
CN401	1-793-183-11	CONNECTOR, D SUB 15P		L402	1-412-529-11	INDUCTOR 22 μ H	
CN402*	1-564-509-11	PLUG, CONNECTOR 6P		L403	1-412-537-31	INDUCTOR 100 μ H	
CN403	1-784-463-11	CONNECTOR, FFC/FPC 21P		L404	1-414-940-21	INDUCTOR 100 μ H	
CN405*	1-564-524-11	PLUG, CONNECTOR 9P		L405	1-412-529-11	INDUCTOR 22 μ H	
CN406*	1-766-179-11	PIN, CONNECTOR (PC BOARD) 2P			<IC LINK>		
	<DIODE>			PS401 \triangle	1-533-590-31	LINK, IC (1A/90V AC, 60V DC)	
D101	8-719-062-51	DIODE 1PS226-115			<TRANSISTOR>		
D102	8-719-062-51	DIODE 1PS226-115		Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D103	8-719-066-10	DIODE 1PS181-115		Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D105	8-719-051-85	DIODE HSS83TD		Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D106	8-719-052-12	DIODE 1SS376TE-17		Q401	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D107	8-719-052-12	DIODE 1SS376TE-17		Q402	8-729-050-41	TRANSISTOR 2SJ360TE12L	
D201	8-719-062-51	DIODE 1PS226-115		Q406	8-729-216-22	TRANSISTOR 2SA1162-G	
D202	8-719-062-51	DIODE 1PS226-115		Q407	8-729-028-74	TRANSISTOR DTA114TUA-T106	
D203	8-719-066-10	DIODE 1PS181-115		Q410	8-729-032-61	TRANSISTOR 2SC5022-02	
D205	8-719-051-85	DIODE HSS83TD			<RESISTOR>		
D206	8-719-052-12	DIODE 1SS376TE-17		R101	1-215-394-00	METAL 75 1% 1/4W	
D207	8-719-052-12	DIODE 1SS376TE-17		R103	1-215-394-00	METAL 75 1% 1/4W	
D301	8-719-062-51	DIODE 1PS226-115		R105	1-216-017-91	RES,CHIP 47 5% 1/10W	
D302	8-719-062-51	DIODE 1PS226-115		R106	1-216-017-91	RES,CHIP 47 5% 1/10W	
D303	8-719-066-10	DIODE 1PS181-115		R107	1-216-045-00	RES,CHIP 680 5% 1/10W	
D305	8-719-051-85	DIODE HSS83TD		R109	1-216-075-00	RES,CHIP 12K 5% 1/10W	
D306	8-719-052-12	DIODE 1SS376TE-17		R110	1-216-097-91	RES,CHIP 100K 5% 1/10W	
D307	8-719-052-12	DIODE 1SS376TE-17		R111	1-216-041-00	RES,CHIP 470 5% 1/10W	
D402	8-719-801-78	DIODE 1SS184		R112	1-216-009-91	RES,CHIP 22 5% 1/10W	
D403	8-719-982-36	ZENER DIODE MTZJ-39B		R113	1-216-017-91	RES,CHIP 47 5% 1/10W	
D405	8-719-911-19	DIODE 1SS119-25		R114	1-216-009-91	RES,CHIP 22 5% 1/10W	
D406	8-719-062-51	DIODE 1PS226-115		R115	1-219-742-11	CARBON 47 5% 1/2W	
D407	8-719-062-51	DIODE 1PS226-115		R116	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
	<FERRITE BEAD>			R117	1-216-121-91	RES,CHIP 1M 5% 1/10W	
FB102	1-500-419-22	FERRITE		R118	1-216-121-91	RES,CHIP 1M 5% 1/10W	
FB202	1-500-419-22	FERRITE		R119	1-216-077-91	RES,CHIP 15K 5% 1/10W	
FB302	1-500-419-22	FERRITE		R120	1-216-113-00	RES,CHIP 470K 5% 1/10W	
FB402	1-412-911-11	FERRITE 1.1 μ H		R121	1-216-113-00	RES,CHIP 470K 5% 1/10W	
FB403	1-412-911-11	FERRITE 1.1 μ H		R122	1-216-081-00	RES,CHIP 22K 5% 1/10W	



REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
R128	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R404	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R130	1-216-113-00	RES,CHIP	470K	5%	1/10W	R405	1-216-045-00	RES,CHIP	680	5%	1/10W
R137	1-249-413-11	CARBON	470	5%	1/4W	R406	1-216-097-91	RES,CHIP	100K	5%	1/10W
R138	1-216-017-91	RES,CHIP	47	5%	1/10W	R407	1-218-768-11	METAL CHIP	470K	0.50%	1/10W
R161	1-216-041-00	RES,CHIP	470	5%	1/10W	R409	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
R201	1-215-394-00	METAL	75	1%	1/4W	R411	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R202	1-216-097-91	RES,CHIP	100K	5%	1/10W	R412	1-216-105-91	RES,CHIP	220K	5%	1/10W
R203	1-215-394-00	METAL	75	1%	1/4W	R413	1-216-097-91	RES,CHIP	100K	5%	1/10W
R205	1-216-017-91	RES,CHIP	47	5%	1/10W	R414	1-216-089-91	RES,CHIP	47K	5%	1/10W
R206	1-216-017-91	RES,CHIP	47	5%	1/10W	R415	1-216-097-91	RES,CHIP	100K	5%	1/10W
R207	1-216-045-00	RES,CHIP	680	5%	1/10W	R417	1-216-121-91	RES,CHIP	1M	5%	1/10W
R209	1-216-075-00	RES,CHIP	12K	5%	1/10W	R418	1-260-127-11	CARBON	220K	5%	1/2W
R210	1-216-097-91	RES,CHIP	100K	5%	1/10W	R419	1-216-033-00	RES,CHIP	220	5%	1/10W
R211	1-216-033-00	RES,CHIP	220	5%	1/10W	R420	1-216-025-91	RES,CHIP	100	5%	1/10W
R212	1-216-009-91	RES,CHIP	22	5%	1/10W	R421	1-216-025-91	RES,CHIP	100	5%	1/10W
R213	1-216-017-91	RES,CHIP	47	5%	1/10W	R422	1-216-025-91	RES,CHIP	100	5%	1/10W
R214	1-216-009-91	RES,CHIP	22	5%	1/10W	R424	1-216-049-91	RES,CHIP	1K	5%	1/10W
R215	1-219-742-11	CARBON	47	5%	1/2W	R425	1-216-049-91	RES,CHIP	1K	5%	1/10W
R216	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R426	1-216-105-91	RES,CHIP	220K	5%	1/10W
R217	1-216-121-91	RES,CHIP	1M	5%	1/10W	R427	1-216-049-91	RES,CHIP	1K	5%	1/10W
R218	1-216-121-91	RES,CHIP	1M	5%	1/10W	R428	1-216-025-91	RES,CHIP	100	5%	1/10W
R219	1-216-077-91	RES,CHIP	15K	5%	1/10W	R430	1-216-025-91	RES,CHIP	100	5%	1/10W
R220	1-216-113-00	RES,CHIP	470K	5%	1/10W	R431	1-216-113-00	RES,CHIP	470K	5%	1/10W
R221	1-216-113-00	RES,CHIP	470K	5%	1/10W	R436	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R222	1-216-081-00	RES,CHIP	22K	5%	1/10W	R438	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R228	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R439	1-216-041-00	RES,CHIP	470	5%	1/10W
R230	1-216-113-00	RES,CHIP	470K	5%	1/10W	R441	1-216-121-91	RES,CHIP	1M	5%	1/10W
R237	1-249-413-11	CARBON	470	5%	1/4W	R442	1-216-049-91	RES,CHIP	1K	5%	1/10W
R238	1-216-017-91	RES,CHIP	47	5%	1/10W	R443	1-216-025-91	RES,CHIP	100	5%	1/10W
R261	1-216-041-00	RES,CHIP	470	5%	1/10W	R444	1-216-025-91	RES,CHIP	100	5%	1/10W
R301	1-215-394-00	METAL	75	1%	1/4W	R445	1-216-025-91	RES,CHIP	100	5%	1/10W
R303	1-215-394-00	METAL	75	1%	1/4W	R446	1-216-025-91	RES,CHIP	100	5%	1/10W
R305	1-216-017-91	RES,CHIP	47	5%	1/10W	R447	1-216-017-91	RES,CHIP	47	5%	1/10W
R306	1-216-017-91	RES,CHIP	47	5%	1/10W	R448	1-216-017-91	RES,CHIP	47	5%	1/10W
R307	1-216-045-00	RES,CHIP	680	5%	1/10W	R449	1-216-081-00	RES,CHIP	22K	5%	1/10W
R309	1-216-075-00	RES,CHIP	12K	5%	1/10W	R450	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R310	1-216-097-91	RES,CHIP	100K	5%	1/10W	R451	1-216-115-00	RES,CHIP	560K	5%	1/10W
R311	1-216-033-00	RES,CHIP	220	5%	1/10W	R453	1-216-073-00	RES,CHIP	10K	5%	1/10W
R312	1-216-009-91	RES,CHIP	22	5%	1/10W	R454	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
R313	1-216-017-91	RES,CHIP	47	5%	1/10W	R455	1-216-097-91	RES,CHIP	100K	5%	1/10W
R314	1-216-009-91	RES,CHIP	22	5%	1/10W	R456	1-216-025-91	RES,CHIP	100	5%	1/10W
R315	1-219-742-11	CARBON	47	5%	1/2W	R457	1-211-895-11	METAL	10M	10%	1/4W
R316	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R458	1-219-398-51	METAL	2.2M	5%	1W
R317	1-216-121-91	RES,CHIP	1M	5%	1/10W	R459	1-211-895-11	METAL	10M	10%	1/4W
R318	1-216-121-91	RES,CHIP	1M	5%	1/10W	R460	1-216-073-00	RES,CHIP	10K	5%	1/10W
R319	1-216-077-91	RES,CHIP	15K	5%	1/10W	R461	1-216-105-91	RES,CHIP	220K	5%	1/10W
R320	1-216-113-00	RES,CHIP	470K	5%	1/10W	R463	1-216-097-91	RES,CHIP	100K	5%	1/10W
R321	1-216-113-00	RES,CHIP	470K	5%	1/10W	R464	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R322	1-216-081-00	RES,CHIP	22K	5%	1/10W	R488	1-216-089-91	RES,CHIP	47K	5%	1/10W
R328	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R490	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R330	1-216-113-00	RES,CHIP	470K	5%	1/10W	R491	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R337	1-249-413-11	CARBON	470	5%	1/4W	<SPARK GAP>					
R338	1-216-017-91	RES,CHIP	47	5%	1/10W						
R361	1-216-041-00	RES,CHIP	470	5%	1/10W						
R402	1-216-049-91	RES,CHIP	1K	5%	1/10W						
R403	1-216-081-00	RES,CHIP	22K	5%	1/10W	SG101	1-576-354-21	GAP, SPARK			



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
SG201	1-576-354-21	GAP, SPARK		C655	1-104-664-11	ELECT 47 μ F	20% 25V
SG301	1-576-354-21	GAP, SPARK		C656	1-126-943-11	ELECT 2200 μ F	20% 25V
SG401	1-576-354-21	GAP, SPARK		C657	1-104-664-11	ELECT 47 μ F	20% 25V
SG402	1-519-422-11	GAP, SPARK		C658	1-126-927-11	ELECT 2200 μ F	20% 10V
				C659	1-128-339-11	ELECT 2200 μ F	20% 10V
		<SOCKET>					
SK401	Δ 1-451-499-11	SOCKET, PICTURE TUBE		C660	1-126-967-11	ELECT 47 μ F	20% 50V
				C661	1-107-429-11	CERAMIC 0.0022 μ F	10% 1KV
				C662	1-137-370-11	FILM 0.01 μ F	5% 50V
		<CRYSTAL>		C663	1-126-965-11	ELECT 22 μ F	20% 50V
X401	1-781-472-21	VIBRATOR, CERAMIC (8MHz)		C665	1-107-909-11	ELECT 47 μ F	20% 10V
				C666	1-126-964-11	ELECT 10 μ F	20% 50V
				C667	1-107-909-11	ELECT 47 μ F	20% 16V
				C680	1-115-747-51	ELECT 0.0068F	20% 10V
				C681	1-104-664-11	ELECT 47 μ F	20% 10V
				C682	1-137-368-11	FILM 0.0047 μ F	5% 50V
				C683	1-104-664-11	ELECT 47 μ F	20% 10V
				C684	1-128-526-11	ELECT 100 μ F	20% 10V
				C685	1-128-526-11	ELECT 100 μ F	20% 10V
				C686	1-104-664-11	ELECT 47 μ F	20% 10V
				C687	1-126-964-11	ELECT 10 μ F	20% 50V
				C692	1-115-339-11	CERAMIC CHIP 0.1 μ F	10% 50V
						<CONNECTOR>	
						CN601*1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P
						CN602*1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P
						CN603*1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P
						CN650*1-564-510-11	PLUG, CONNECTOR 7P
						CN651*1-564-507-11	PLUG, CONNECTOR 4P
						CN652*1-564-512-11	PLUG, CONNECTOR 9P
						CN653*1-564-509-11	PLUG, CONNECTOR 6P
						CN654*1-564-511-11	PLUG, CONNECTOR 8P
						<DIODE>	
						D610 Δ 8-719-510-53	DIODE D4SB60L
						D612	8-719-911-19 DIODE 1SS119-25
						D613	8-719-304-63 DIODE RM11C
						D620	8-719-911-19 DIODE 1SS119-25
						D631	8-719-063-73 DIODE D1NL20U-TR
						D632	8-719-059-23 DIODE P6KE200AG23
						D633	8-719-069-63 DIODE ERB38-06V1
						D634	8-719-911-19 DIODE 1SS119-25
						D635	8-719-110-53 ZENER DIODE RD20ESB2
						D637	8-719-911-19 DIODE 1SS119-25
						D650	8-719-064-49 DIODE D4SBL40
						D651	8-719-063-73 DIODE D1NL20U-TR
						D652	8-719-052-91 DIODE D4SBS4-F
						D653	8-719-022-97 DIODE D2S4MF
						D654	8-719-022-97 DIODE D2S4MF
						D655	8-719-063-73 DIODE D1NL20U-TR
						D656	8-719-911-19 DIODE 1SS119-25
						D660	8-719-110-57 ZENER DIODE RD22ESB2
						D661	8-719-110-31 ZENER DIODE RD12ESB2
						D663	8-719-911-19 DIODE 1SS119-25
						D664	8-719-110-57 ZENER DIODE RD22ESB2

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P1100



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D665	8-719-911-19	DIODE 1SS119-25		Q633	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D666	8-719-911-19	DIODE 1SS119-25		Q650	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D680	8-719-989-87	DIODE YG802C09		Q651	8-729-230-45	TRANSISTOR 2SC2458-YGR	
D681	8-719-109-89	ZENER DIODE RD5.6ESB2		Q652	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D682	8-719-121-26	ZENER DIODE RD9.1ESL2		Q653	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D683	8-719-911-19	DIODE 1SS119-25		Q654	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
D690	8-719-911-19	DIODE 1SS119-25		Q667	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
D692	8-719-911-19	DIODE 1SS119-25		Q670	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
				Q671	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
		<FUSE>		Q691	8-729-119-78	TRANSISTOR 2SC2785-HFE	
F601	Δ 1-576-233-11	FUSE (H.B.C.) (6.3A/250V)				<RESISTOR>	
		<FERRITE BEAD>		R601	Δ 1-220-825-91	CARBON 330K	5% 1/2W
FB630	1-410-396-41	FERRITE 0.45 μ H		R602	1-216-465-11	METAL OXIDE 27K	5% 2W F
FB632	Δ 1-410-397-31	FERRITE 1.1 μ H		R603	1-247-895-91	CARBON 470K	5% 1/4W
				R604	1-216-113-00	RES,CHIP 470K	5% 1/10W
				R605	1-216-113-00	RES,CHIP 470K	5% 1/10W
		<IC>		R606	1-216-097-91	RES,CHIP 100K	5% 1/10W
IC610	8-749-015-89	IC MZ1530		R607	1-216-097-91	RES,CHIP 100K	5% 1/10W
IC630	8-759-535-32	IC FA13842P		R608	1-216-073-00	RES,CHIP 10K	5% 1/10W
IC650	8-749-012-49	IC DM-57N		R609	1-216-069-00	RES,CHIP 6.8K	5% 1/10W
IC651	8-759-592-79	IC BA00AST-V5		R610	1-217-152-00	METAL 0.33	10% 2W
IC652	8-759-496-15	IC BA05ST-V5		R611	1-217-153-00	METAL 0.47	10% 2W
IC653	8-759-450-47	IC BA05T		R612	1-249-429-11	CARBON 10K	5% 1/4W
IC654	8-759-643-66	IC μ PC2912HF (12)		R613	1-216-089-91	RES,CHIP 47K	5% 1/10W
IC680	8-759-321-95	IC HA17431PA		R614	1-247-807-31	CARBON 100	5% 1/4W
				R615	1-249-427-11	CARBON 6.8K	5% 1/4W
		<COIL>		R616	1-216-671-11	METAL CHIP 6.8K	0.50%1/10W
L610	1-419-126-21	COIL, CHOKE (AFC) 216 μ H		R617	1-247-831-91	CARBON 1K	5% 1/4W
L611	1-411-674-11	INDUCTOR 68 μ H		R618	1-216-369-00	METAL OXIDE 1	5% 2W F
L650	1-414-742-21	INDUCTOR 22 μ H		R620	1-202-933-61	FUSIBLE 0.1	10% 1/2W F
L651	1-414-742-21	INDUCTOR 22 μ H		R621	1-249-432-11	CARBON 18K	5% 1/4W
L652	1-412-529-11	INDUCTOR 22 μ H		R622	1-216-089-91	RES,CHIP 47K	5% 1/10W
L653	1-412-529-11	INDUCTOR 22 μ H		R623	1-218-642-11	METAL OXIDE 100K	5% 1W F
L680	1-414-742-21	INDUCTOR 22 μ H		R624	1-218-642-11	METAL OXIDE 100K	5% 1W F
				R625	1-216-349-00	METAL OXIDE 1	5% 1W F
				R626	1-216-349-00	METAL OXIDE 1	5% 1W F
		<PHOTO COUPLER>		R627	1-216-683-11	METAL CHIP 22K	0.50%1/10W
PH620	8-749-924-35	PHOTO COUPLER ON3171-R		R628	1-216-695-11	METAL CHIP 68K	0.50%1/10W
PH630	8-749-924-35	PHOTO COUPLER ON3171-R		R629	1-216-683-11	METAL CHIP 22K	0.50%1/10W
				R630	1-249-387-11	CARBON 3.3	5% 1/4W F
				R632	1-215-399-00	METAL 120	1% 1/4W
		<IC LINK>		R633	1-260-135-11	CARBON 1M	5% 1/2W
PS650	Δ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)		R634	1-260-135-11	CARBON 1M	5% 1/2W
				R635	1-216-465-11	METAL OXIDE 27K	5% 2W F
				R636	1-247-863-91	CARBON 22K	5% 1/4W
				R637	1-219-134-11	FUSIBLE 0.1	10% 1/4W
		<TRANSISTOR>		R638	1-219-134-11	FUSIBLE 0.1	10% 1/4W
Q603	8-729-045-39	TRANSISTOR MX0842AB-F		R649	1-249-437-11	CARBON 47K	5% 1/4W F
Q610	8-729-119-76	TRANSISTOR 2SA1175-HFE		R650	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
Q621	8-729-119-78	TRANSISTOR 2SC2785-HFE		R652	1-216-113-00	RES,CHIP 470K	5% 1/10W
Q630	8-729-045-03	TRANSISTOR 2SK2647-01MR-F91		R653	1-249-413-11	CARBON 470	5% 1/4W
Q631	8-729-041-66	TRANSISTOR 2SC4015TV2		R654	1-211-796-11	FUSIBLE 1	5% 1/2W F
Q632	8-729-041-66	TRANSISTOR 2SC4015TV2		R655	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
				R656	1-260-292-11	CARBON 1	5% 1/2W



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R657	1-249-443-11	CARBON	0.47	5%	1/4W	F	
R658	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R659	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R660	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R661	1-247-807-31	CARBON	100	5%	1/4W		
R662	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R663	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R664	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R665	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		
R666	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R667	1-216-089-91	RES,CHIP	47K	5%	1/10W		
R668	1-215-457-00	METAL	33K	1%	1/4W		
R670	1-216-677-11	METAL CHIP	12K	0.50%	1/10W		
R671	1-216-677-11	METAL CHIP	12K	0.50%	1/10W		
R672	1-216-664-11	METAL CHIP	3.6K	0.50%	1/10W		
R673	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R674	1-216-097-91	RES,CHIP	100K	5%	1/10W		
R675	1-216-668-11	METAL CHIP	5.1K	0.50%	1/10W		
R676	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W		
R677	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W		
R678	1-216-391-11	METAL OXIDE	1.5	5%	3W	F	
R680	1-215-475-00	METAL	180K	1%	1/4W		
R681	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R682	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R683	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		
R684	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R685	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R686	1-216-033-00	RES,CHIP	220	5%	1/10W		
R687	1-216-081-00	RES,CHIP	22K	5%	1/10W		
R688	1-215-473-00	METAL	150K	1%	1/4W		
R693	1-260-085-11	CARBON	68	5%	1/2W		
R694	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R695	1-216-065-91	RES,CHIP	4.7K	5%	1/10W		
R696	1-249-407-11	CARBON	150	5%	1/4W		
R699	1-219-134-11	FUSIBLE	0.1	10%	1/4W		
<RELAY>							
RY602	Δ 1-755-318-11	RELAY, POWER					
RY603	Δ 1-755-067-21	RELAY					
<SPARK GAP>							
SG601	Δ 1-533-982-11	GAP, SPARK					
<TRANSFORMER>							
T601	Δ 1-429-180-11	TRANSFORMER, LINE FILTER					
T620	1-433-894-11	TRANSFORMER, CONVERTER (PIT)					
T621	1-429-992-11	TRANSFORMER, CONVERTER (PRT)					
T630	1-433-895-31	TRANSFORMER, CONVERTER (SRT)					
<THERMISTOR>							
TH601	Δ 1-809-260-11	THERMISTOR, POWER					
THP601	Δ 1-809-827-31	THERMISTOR, POSITIVE					
				<VARISTOR>			
				VDR601 Δ 1-801-268-51 VARISTOR TNR14V471K660			
				VDR602 Δ 1-810-622-11 VARISTOR			

				* 8-933-389-00 D BOARD, COMPLETE			


				3-710-578-01 COVER, VOLUME, 6 MOLD (RV901)			
				4-070-828-01 INSULATING SHEET (Q515)			
				4-070-829-02 INSULATING SHEET (IC502)			
				4-070-830-01 INSULATING SHEET (IC701)			
				4-382-854-11 SCREW (M3X10), P, SW (+)			
				(IC701, Q704, Q705, Q905, Q906, R918)			
				7-685-647-79 SCREW +BVTP 3X10 TYPE2 TT(B)			
				(D511, IC502, Q508, Q515, R547)			
				<CAPACITOR>			
				C501	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
				C502	1-136-169-00	FILM 0.22 μ F	5% 50V
				C503	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
				C504	1-163-017-00	CERAMIC CHIP 0.0047 μ F	10% 50V
				C505	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
				C506	1-137-194-81	FILM 0.47 μ F	5% 50V
				C507	1-136-169-00	FILM 0.22 μ F	5% 50V
				C508	1-126-965-11	ELECT 22 μ F	20% 50V
				C509	1-117-670-31	FILM 0.82 μ F	5% 250V
				C510	1-117-398-11	ELECT 33 μ F	20% 250V
				C511	1-163-113-00	CERAMIC CHIP 68pF	5% 50V
				C512	1-163-259-91	CERAMIC CHIP 220pF	5% 50V
				C513	1-163-017-00	CERAMIC CHIP 0.0047 μ F	10% 50V
				C514	1-106-375-12	MYLAR 0.022 μ F	99% 200V
				C515	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
				C516	1-126-935-11	ELECT 470 μ F	20% 16V
				C517	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
				C518	1-137-194-81	FILM 0.47 μ F	5% 50V
				C519	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
				C520	1-107-914-11	ELECT 1000 μ F	20% 25V
				C521	1-117-666-11	FILM 0.39 μ F	5% 250V
				C522	1-137-368-11	FILM 0.0047 μ F	5% 50V
				C523	1-137-368-11	FILM 0.0047 μ F	5% 50V
				C524	1-163-133-00	CERAMIC CHIP 470pF	5% 50V
				C525	1-104-760-11	CERAMIC CHIP 0.047 μ F	10% 50V
				C526	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
				C527	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
				C528	1-117-663-31	FILM 0.22 μ F	5% 250V
				C529	1-104-665-11	ELECT 100 μ F	20% 25V
				C530	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
				C531	1-107-846-11	FILM 0.1 μ F	5% 250V
				C532	1-163-009-11	CERAMIC CHIP 0.001 μ F	10% 50V
				C533	1-107-889-11	ELECT 220 μ F	20% 25V
				C534	1-107-889-11	ELECT 220 μ F	20% 25V
				C535	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D520	8-719-988-61	DIODE 1SS355TE-17		JR008	1-216-295-91	SHORT	0
D522	8-719-988-61	DIODE 1SS355TE-17		JR009	1-216-295-91	SHORT	0
D701	8-719-991-33	DIODE 1SS133T-77		JR010	1-216-295-91	SHORT	0
D702	8-719-991-33	DIODE 1SS133T-77		JR011	1-216-295-91	SHORT	0
D703	8-719-991-33	DIODE 1SS133T-77		JR012	1-216-296-91	SHORT	0
D706	8-719-979-58	DIODE EGP10D		JR013	1-216-295-91	SHORT	0
D707	8-719-109-85	ZENER DIODE RD5.1ESB2		JR014	1-216-296-91	SHORT	0
D708	8-719-908-03	DIODE GP08D		JR015	1-216-296-91	SHORT	0
D709	8-719-948-45	DIODE ERA22-08		JR016	1-216-295-91	SHORT	0
D710	8-719-109-85	ZENER DIODE RD5.1ESB2					
D901	8-719-991-33	DIODE 1SS133T-77			<COIL>		
D902	8-719-110-31	ZENER DIODE RD12ESB2					
D904	8-719-988-61	DIODE 1SS355TE-17		L501	1-412-537-31	INDUCTOR	100μH
D905	8-719-110-36	ZENER DIODE RD13ESB2		L502	1-406-673-11	COIL, CHOKE	2.2mH
D906	8-719-063-89	DIODE YG911S3R		L503	1-406-671-11	COIL, CHOKE	1mH
D907	8-719-930-97	ZENER DIODE HZS16NB2TD		L504	1-406-675-11	COIL, CHOKE	4.7mH
D908	8-719-018-82	DIODE RGP02-20EL-6394		L505	1-416-401-31	COIL, CHOKE	5mH
D909	8-719-930-97	ZENER DIODE HZS16NB2TD		L901	1-412-537-31	INDUCTOR	100μH
D910	8-719-991-33	DIODE 1SS133T-77		L902	1-406-660-41	COIL, CHOKE	15μH
D912	8-719-979-58	DIODE EGP10D					
D913	8-719-991-33	DIODE 1SS133T-77			<TRANSISTOR>		
D914	8-719-991-33	DIODE 1SS133T-77					
D915	8-719-929-72	ZENER DIODE HZS33NB2		Q501	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119	
D917	8-719-988-61	DIODE 1SS355TE-17		Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D918	8-719-991-33	DIODE 1SS133T-77		Q503	8-729-901-97	TRANSISTOR 2SA1036K-Q	
D919	8-719-991-33	DIODE 1SS133T-77		Q504	8-729-901-87	TRANSISTOR 2SC2411K-CQ	
D920	8-719-928-85	ZENER DIODE HZS4.7NB2		Q505	8-729-901-97	TRANSISTOR 2SA1036K-Q	
D921	8-719-988-61	DIODE 1SS355TE-17		Q506	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119	
D922	8-719-018-82	DIODE RGP02-20EL-6394		Q507	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119	
D923	8-719-988-61	DIODE 1SS355TE-17		Q508	8-729-048-53	TRANSISTOR 2SJ569LS-CB11	
				Q509	8-729-820-73	TRANSISTOR 2SC3746	
				Q510	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119	
				Q511	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119	
FB501	1-410-397-21	FERRITE	1.1μH	Q512	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119	
FB502	1-410-397-21	FERRITE	1.1μH	Q513	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119	
FB503	1-412-911-11	FERRITE	1.1μH	Q514	8-729-140-50	TRANSISTOR 2SC3209LK	
FB504	1-412-911-11	FERRITE	1.1μH	Q515	8-729-048-48	TRANSISTOR 2SC5570 (LBSONY)	
FB505	1-412-911-11	FERRITE	1.1μH				
FB506	1-410-397-21	FERRITE	1.1μH	Q516	8-729-024-95	TRANSISTOR 2SB1565EF	
FB507	1-410-397-21	FERRITE	1.1μH	Q517	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119	
FB901	1-410-397-21	FERRITE	1.1μH	Q518	8-729-019-01	TRANSISTOR 2SD2394-EF	
				Q519	8-729-033-25	TRANSISTOR DTC114GKA	
				Q520	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q521	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q522	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC501	8-759-585-82	IC BA9759F-E2		Q523	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC502	8-759-803-42	IC LA6500-FA		Q524	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC503	8-759-058-50	IC XRA10324AF		Q525	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119	
IC701	8-759-444-82	IC LA7841L					
IC901	8-759-585-81	IC BA9758FS-E2		Q526	8-729-027-35	TRANSISTOR DTA143TKA-T146	
				Q701	8-729-800-32	TRANSISTOR 2SC2362K-G	
				Q702	8-729-178-43	TRANSISTOR 2SC2784-E	
				Q703	8-729-204-91	TRANSISTOR 2SA1049-GR	
				Q704	8-729-207-82	TRANSISTOR 2SC3421-Y	
				Q705	8-729-207-89	TRANSISTOR 2SA1358-Y	
JR002	1-216-296-91	SHORT	0	Q706	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
JR003	1-216-295-91	SHORT	0	Q707	8-729-046-80	TRANSISTOR 2SC4634LS-CB11	
JR004	1-216-295-91	SHORT	0	Q903	8-729-901-87	TRANSISTOR 2SC2411K-CQ	
JR005	1-216-296-91	SHORT	0	Q904	8-729-901-97	TRANSISTOR 2SA1036K-Q	
JR006	1-216-295-91	SHORT	0				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q905	8-729-048-53	TRANSISTOR 2SJ569LS-CB11		R551	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q906	8-729-044-21	TRANSISTOR 2SK2655-01R-F165		R552	1-216-097-91	RES,CHIP 100K	5% 1/10W
Q907	8-729-033-26	TRANSISTOR DTA114GKAT146		R553	1-247-815-91	CARBON 220	5% 1/4W
Q908	8-729-033-25	TRANSISTOR DTC114GKA		R554	1-216-679-11	METAL CHIP 15K	0.50%1/10W
				R555	1-216-675-91	METAL CHIP 10K	0.50%1/10W
	<RESISTOR>						
R501	1-215-884-11	METAL OXIDE 47	5% 2W F	R556	1-216-683-11	METAL CHIP 22K	0.50%1/10W
R502	1-216-059-00	RES,CHIP 2.7K	5% 1/10W	R557	1-216-423-11	METAL OXIDE 27	5% 1W F
R503	1-216-049-91	RES,CHIP 1K	5% 1/10W	R558	1-249-437-11	CARBON 47K	5% 1/4W
R504	1-216-049-91	RES,CHIP 1K	5% 1/10W	R559	1-216-073-00	RES,CHIP 10K	5% 1/10W
R505	1-216-049-91	RES,CHIP 1K	5% 1/10W	R560	1-216-675-91	METAL CHIP 10K	0.50%1/10W
R506	1-216-049-91	RES,CHIP 1K	5% 1/10W	R561	1-215-443-00	METAL 8.2K	1% 1/4W
R507	1-216-097-91	RES,CHIP 100K	5% 1/10W	R562	1-216-677-11	METAL CHIP 12K	0.50%1/10W
R508	1-247-815-91	CARBON 220	5% 1/4W	R563	1-216-049-91	RES,CHIP 1K	5% 1/10W
R509	1-216-049-91	RES,CHIP 1K	5% 1/10W	R564	1-216-677-11	METAL CHIP 12K	0.50%1/10W
R510	1-216-675-91	METAL CHIP 10K	0.50%1/10W	R565	1-216-097-91	RES,CHIP 100K	5% 1/10W
R511	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R566	1-216-687-11	METAL CHIP 33K	0.50%1/10W
R512	1-215-453-00	METAL 22K	1% 1/4W	R567	1-214-840-00	METAL 100	1% 1/2W
R513	1-216-049-91	RES,CHIP 1K	5% 1/10W	R568	1-216-665-11	METAL CHIP 3.9K	0.50%1/10W
R514	1-216-097-91	RES,CHIP 100K	5% 1/10W	R569	1-216-691-11	METAL CHIP 47K	0.50%1/10W
R515	1-216-049-91	RES,CHIP 1K	5% 1/10W	R570	1-260-332-51	CARBON 2.2K	5% 1/2W
R516	1-216-049-91	RES,CHIP 1K	5% 1/10W	R571	1-249-425-11	CARBON 4.7K	5% 1/4W
R517	1-216-687-11	METAL CHIP 33K	0.50%1/10W	R572	1-216-385-11	METAL OXIDE 0.47	5% 3W F
R518	1-216-691-11	METAL CHIP 47K	0.50%1/10W	R573	1-249-437-11	CARBON 47K	5% 1/4W
R519	1-216-081-00	RES,CHIP 22K	5% 1/10W	R574	1-216-097-91	RES,CHIP 100K	5% 1/10W
R520	1-247-791-91	CARBON 22	5% 1/4W	R575	1-216-672-11	METAL CHIP 7.5K	0.50%1/10W
R521	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W	R576	1-215-869-11	METAL OXIDE 1K	5% 1W F
R522	1-249-437-11	CARBON 47K	5% 1/4W	R577	1-260-310-71	CARBON 33	5% 1/2W
R523	1-216-033-00	RES,CHIP 220	5% 1/10W	R578	1-216-049-91	RES,CHIP 1K	5% 1/10W
R524	1-216-049-91	RES,CHIP 1K	5% 1/10W	R579	1-216-049-91	RES,CHIP 1K	5% 1/10W
R525	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R580	1-214-840-00	METAL 100	1% 1/2W
R526	1-216-097-91	RES,CHIP 100K	5% 1/10W	R581	1-260-316-51	CARBON 100	5% 1/2W
R527	1-216-673-11	METAL CHIP 8.2K	0.50%1/10W	R582	1-214-840-00	METAL 100	1% 1/2W
R528	1-216-677-11	METAL CHIP 12K	0.50%1/10W	R583	1-249-437-11	CARBON 47K	5% 1/4W
R529	1-216-057-00	RES,CHIP 2.2K	5% 1/10W	R584	1-249-437-11	CARBON 47K	5% 1/4W
R530	1-216-049-91	RES,CHIP 1K	5% 1/10W	R585	1-216-073-00	RES,CHIP 10K	5% 1/10W
R531	1-216-097-91	RES,CHIP 100K	5% 1/10W	R586	1-216-683-11	METAL CHIP 22K	0.50%1/10W
R532	1-215-860-11	METAL OXIDE 33	5% 1W F	R587	1-215-886-11	METAL OXIDE 100	5% 2W F
R533	1-211-796-11	FUSIBLE 1	5% 1/2W F	R588	1-260-085-11	CARBON 68	5% 1/2W
R534	1-216-689-11	METAL CHIP 39K	0.50%1/10W	R589	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R535	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R590	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R536	1-216-683-11	METAL CHIP 22K	0.50%1/10W	R591	1-247-807-31	CARBON 100	5% 1/4W
R537	1-249-437-11	CARBON 47K	5% 1/4W	R593	1-216-073-00	RES,CHIP 10K	5% 1/10W
R538	1-216-049-91	RES,CHIP 1K	5% 1/10W	R594	1-216-683-11	METAL CHIP 22K	0.50%1/10W
R539	1-216-097-91	RES,CHIP 100K	5% 1/10W	R595	1-216-659-11	METAL CHIP 2.2K	0.50%1/10W
R540	1-215-909-11	METAL OXIDE 47	5% 3W F	R597	1-216-073-00	RES,CHIP 10K	5% 1/10W
R541	1-216-295-91	SHORT 0		R598	1-216-675-91	METAL CHIP 10K	0.50%1/10W
R542	1-249-437-11	CARBON 47K	5% 1/4W	R599	1-216-657-11	METAL CHIP 1.8K	0.50%1/10W
R543	1-216-677-11	METAL CHIP 12K	0.50%1/10W	R701	1-216-049-91	RES,CHIP 1K	5% 1/10W
R544	1-216-049-91	RES,CHIP 1K	5% 1/10W	R702	1-249-393-11	CARBON 10	5% 1/4W F
R545	1-216-097-91	RES,CHIP 100K	5% 1/10W	R703	1-215-459-00	METAL 39K	1% 1/4W
R546	1-216-381-11	METAL OXIDE 0.22	5% 3W F	R704	1-216-655-11	METAL CHIP 1.5K	0.50%1/10W
R547	1-219-726-11	METAL 2.2	5% 10W	R705	1-249-413-11	CARBON 470	5% 1/4W F
R548	1-249-437-11	CARBON 47K	5% 1/4W	R706	1-249-389-11	CARBON 4.7	5% 1/4W F
R549	1-260-288-11	CARBON 0.47	5% 1/2W	R707	1-249-389-11	CARBON 4.7	5% 1/4W F
R550	1-260-288-11	CARBON 0.47	5% 1/2W	R708	1-215-881-11	METAL OXIDE 15	5% 2W F
				R709	1-216-049-91	RES,CHIP 1K	5% 1/10W


D


Les composants identifiés par la marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION		REMARK		REF.NO.	PART NO.	DESCRIPTION		REMARK	
R710	1-216-073-00	RES,CHIP	10K	5%	1/10W	R941	1-216-025-91	RES,CHIP	100	5%	1/10W
R711	1-216-049-91	RES,CHIP	1K	5%	1/10W	R943	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R713	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	R945	1-216-025-91	RES,CHIP	100	5%	1/10W
R714	1-216-057-00	RES,CHIP	2.2K	5%	1/10W						
						R1501	1-216-049-91	RES,CHIP	1K	5%	1/10W
R715	1-249-389-11	CARBON	4.7	5%	1/4W F	R1502	1-216-033-00	RES,CHIP	220	5%	1/10W
R716	1-216-689-11	RES,CHIP	39K	5%	1/10W	R1503	1-216-682-11	METAL CHIP	20K	0.50%	1/10W
R717	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1504	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W
R718	1-216-681-11	METAL CHIP	18K	0.50%	1/10W	R1505	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R719	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W						
						R1506	1-216-049-91	RES,CHIP	1K	5%	1/10W
R720	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1507	1-216-097-91	RES,CHIP	100K	5%	1/10W
R721	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1510	1-216-073-00	RES,CHIP	10K	5%	1/10W
R722	1-260-292-11	CARBON	1	5%	1/2W	R1515	1-215-909-11	METAL OXIDE	47	5%	3W F
R723	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W	R1517	1-216-089-91	RES,CHIP	47K	5%	1/10W
R724	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W						
						R1518	1-216-025-91	RES,CHIP	100	5%	1/10W
R725	1-214-798-21	METAL	1.8	1%	1/2W						
R726	1-214-798-21	METAL	1.8	1%	1/2W						
R727	1-249-381-11	CARBON	1	5%	1/4W F			<VARIABLE RESISTOR>			
R728	1-215-865-11	METAL OXIDE	220	5%	1W F						
R729	1-260-292-11	CARBON	1	5%	1/2W	RV901	1-241-767-21	RES, ADJ, CERMET		100K	(HVADJ)
R730	1-216-073-00	RES,CHIP	10K	5%	1/10W						
R731	1-216-059-00	RES,CHIP	2.7K	5%	1/10W			<RELAY>			
R732	1-219-510-11	CARBON	470K	5%	1/2W						
R901	1-216-097-91	RES,CHIP	100K	5%	1/10W	RY501	1-755-198-11	RELAY			
R902	1-216-117-00	RES,CHIP	680K	5%	1/10W						
R903	1-216-089-91	RES,CHIP	47K	5%	1/10W			<SPARK GAP>			
R904	1-216-033-00	RES,CHIP	220	5%	1/10W						
R906	1-216-033-00	RES,CHIP	220	5%	1/10W	SG901	1-517-499-21	GAP, SPARK			
R907	1-216-081-00	RES,CHIP	22K	5%	1/10W	SG902	1-519-422-11	GAP, SPARK			
R908	1-216-399-00	METAL OXIDE	6.8	5%	3W F	SG903	1-519-422-11	GAP, SPARK			
R911	1-216-041-00	RES,CHIP	470	5%	1/10W						
R912	1-216-049-91	RES,CHIP	1K	5%	1/10W			<TRANSFORMER>			
R914	1-247-791-91	CARBON	22	5%	1/4W						
R915	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	T501	1-435-070-11	TRANSFORMER, HORIZONTAL DRIVE			
R916	1-249-397-11	CARBON	22	5%	1/4W F	T502	1-429-301-11	TRANSFORMER, FERRITE (HCT)			
						T503	1-431-413-21	TRANSFORMER, FERRITE (HST)			
R917	1-211-824-71	FUSIBLE	220	5%	1/2W						



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	* 8-933-391-00	H BOARD, COMPLETE *****				<THERMISTOR>	
				TH801	1-807-796-11	THERMISTOR	
		<CAPACITOR>				*****	
C810	1-126-791-11	ELECT	10μF 20% 16V			* 8-933-451-00	H2 BOARD, COMPLETE *****
C814	1-126-786-11	ELECT	47μF 20% 16V				
		<CONNECTOR>				<CAPACITOR>	
CN801	*1-564-526-11	PLUG, CONNECTOR 11P		C880	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
		<DIODE>		C882	1-126-791-11	ELECT	10μF 20% 16V
D801	8-719-064-11	DIODE SPR-325MVW (POWER)				<CONNECTOR>	
		<TRANSISTOR>		CN880	*1-564-518-11	PLUG, CONNECTOR 3P	
Q801	8-729-119-78	TRANSISTOR 2SC2785-HFE				<DIODE>	
Q802	8-729-119-78	TRANSISTOR 2SC2785-HFE		D880	8-719-988-61	DIODE 1SS355TE-17	
Q803	8-729-029-40	TRANSISTOR DTA124ESA				<IC>	
Q804	8-729-029-40	TRANSISTOR DTA124ESA		IC880	8-759-641-70	IC IS474SI	
		<RESISTOR>				<TRANSISTOR>	
R801	1-249-413-11	CARBON	470 5% 1/4W	Q880	8-729-026-50	TRANSISTOR 2SA1037AK-T146-QR	
R802	1-249-807-31	CARBON	100 5% 1/4W	Q881	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
R803	1-249-807-31	CARBON	100 5% 1/4W	Q882	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
R804	1-249-815-91	CARBON	220 5% 1/4W			<RESISTOR>	
R805	1-249-815-91	CARBON	220 5% 1/4W	R880	1-216-127-11	RES,CHIP	1.8M 5% 1/10W
R806	1-249-413-11	CARBON	470 5% 1/4W	R881	1-216-037-00	RES,CHIP	330 5% 1/10W
R807	1-247-831-91	CARBON	1K 5% 1/4W	R882	1-216-049-91	RES,CHIP	1K 5% 1/10W
R811	1-249-429-11	CARBON	10K 5% 1/4W	R883	1-216-105-91	RES,CHIP	220K 5% 1/10W
R812	1-249-429-11	CARBON	10K 5% 1/4W	R884	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R813	1-247-863-91	CARBON	22K 5% 1/4W	R885	1-216-089-91	RES,CHIP	47K 5% 1/10W
R814	1-249-441-11	CARBON	100K 5% 1/4W	R886	1-216-073-00	RES,CHIP	10K 5% 1/10W
R815	1-249-429-11	CARBON	10K 5% 1/4W	R887	1-216-295-91	SHORT	0
R821	1-249-407-11	CARBON	150 5% 1/4W	R888	1-216-295-91	SHORT	0
R822	1-249-413-11	CARBON	470 5% 1/4W			*****	
R823	1-247-831-91	CARBON	1K 5% 1/4W			* 8-933-396-00	J BOARD, COMPLETE *****
R824	1-249-419-11	CARBON	1.5K 5% 1/4W			<CONNECTOR>	
		<SWITCH>		CN891	*1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
S800	1-571-588-11	SWITCH, SLIDE (INPUT1/INPUT2)					
S801	1-692-431-21	SWITCH, TACTILE (RESET)					
S802	1-692-431-21	SWITCH, TACTILE (ASC)					
S803	1-692-431-21	SWITCH, TACTILE (V-)					
S804	1-692-431-21	SWITCH, TACTILE (V+)					
S805	1-692-431-21	SWITCH, TACTILE (MENU)					
S806	1-692-431-21	SWITCH, TACTILE (H-)					
S807	1-692-431-21	SWITCH, TACTILE (H+)					

Les composants identifiés par la marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified  marked are critical for safety.
Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<SWITCH>				D2902	8-719-422-12	ZENER DIODE MA8039	
S891	△ 1-571-433-31	SWITCH, PUSH (AC POWER)		D2903	8-719-422-12	ZENER DIODE MA8039	
*****				D2904	8-719-158-15	ZENER DIODE RD5.6S-B	
				D2905	8-719-158-15	ZENER DIODE RD5.6S-B	
				D2906	8-719-158-15	ZENER DIODE RD5.6S-B	
				D2907	8-719-158-15	ZENER DIODE RD5.6S-B	
				D2908	8-719-422-12	ZENER DIODE MA8039	
				D2909	8-719-422-12	ZENER DIODE MA8039	
				D2910	8-719-422-12	ZENER DIODE MA8039	
				D2911	8-719-422-12	ZENER DIODE MA8039	
<CAPACITOR>				D2912	8-719-422-12	ZENER DIODE MA8039	
C2601	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	D2913	8-719-422-12	ZENER DIODE MA8039	
C2602	1-126-791-11	ELECT 10μF	20% 16V	D2914	8-719-422-12	ZENER DIODE MA8039	
C2603	1-126-791-11	ELECT 10μF	20% 16V	D2915	8-719-422-12	ZENER DIODE MA8039	
C2604	1-126-791-11	ELECT 10μF	20% 16V	<FERRITE BEAD>			
C2605	1-126-791-11	ELECT 10μF	20% 16V	FB2601	1-412-911-11	FERRITE 1.1μH	
C2606	1-126-176-11	ELECT 220μF	20% 10V	FB2602	1-412-911-11	FERRITE 1.1μH	
C2607	1-126-176-11	ELECT 220μF	20% 10V	FB2901	1-412-911-11	FERRITE 1.1μH	
C2608	1-126-176-11	ELECT 220μF	20% 10V	FB2903	1-412-911-11	FERRITE 1.1μH	
C2609	1-126-176-11	ELECT 220μF	20% 10V	FB2904	1-412-911-11	FERRITE 1.1μH	
C2610	1-113-340-11	ELECT 47μF	20% 25V	FB2905	1-412-911-11	FERRITE 1.1μH	
C2611	1-113-340-11	ELECT 47μF	20% 25V	FB2906	1-412-911-11	FERRITE 1.1μH	
C2612	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FB2911	1-412-911-11	FERRITE 1.1μH	
C2901	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	FB2912	1-216-295-91	SHORT 0	
C2902	1-113-340-11	ELECT 47μF	20% 25V	FB2913	1-216-295-91	SHORT 0	
C2904	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FB2914	1-216-295-91	SHORT 0	
C2905	1-164-489-11	CERAMIC CHIP 0.22μF	10% 16V	FB2915	1-216-295-91	SHORT 0	
C2906	1-164-489-11	CERAMIC CHIP 0.22μF	10% 16V	FB2916	1-216-295-91	SHORT 0	
C2908	1-164-489-11	CERAMIC CHIP 0.22μF	10% 16V	FB2917	1-216-295-91	SHORT 0	
C2909	1-163-237-11	CERAMIC CHIP 27pF	5% 50V	FB2918	1-216-295-91	SHORT 0	
C2912	1-163-235-11	CERAMIC CHIP 22pF	5% 50V	FB2919	1-216-295-91	SHORT 0	
C2914	1-164-489-11	CERAMIC CHIP 0.22μF	10% 16V	FB2924	1-216-295-91	SHORT 0	
C2915	1-164-489-11	CERAMIC CHIP 0.22μF	10% 16V	FB2925	1-216-295-91	SHORT 0	
C2916	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	FB2936	1-216-295-91	SHORT 0	
C2917	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	<IC>			
C2918	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	IC2601	8-759-431-14	IC PQ3TZ53U	
C2923	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	IC2602	8-759-639-01	IC SDI02	
<CONNECTOR>				IC2603	8-759-639-01	IC SDI02	
CN2601	*1-778-681-11	PIN, CONNECTOR (PC BOARD) 5P		IC2901	8-759-591-27	IC KC82C160SH	
CN2901	1-779-677-11	CONNECTOR, USB (B)		IC2902	8-759-165-87	IC PST600J-T	
CN2902	1-779-676-11	CONNECTOR, USB (A)		<TRANSISTOR>			
CN2903	1-779-676-11	CONNECTOR, USB (A)		Q2601	8-729-029-06	TRANSISTOR DTC124EUA-T106	
CN2904	1-779-676-11	CONNECTOR, USB (A)		Q2602	8-729-029-06	TRANSISTOR DTC124EUA-T106	
CN2905	1-779-676-11	CONNECTOR, USB (A)		Q2603	8-729-029-06	TRANSISTOR DTC124EUA-T106	
<DIODE>				Q2604	8-729-029-06	TRANSISTOR DTC124EUA-T106	
D2601	8-719-158-15	ZENER DIODE RD5.6S-B		<RESISTOR>			
D2604	8-719-911-19	DIODE 1SS119-25		R2601	1-216-081-00	RES,CHIP 22K 5% 1/10W	
D2605	8-719-911-19	DIODE 1SS119-25		R2602	1-216-349-00	METAL OXIDE 1 5% 1W F	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R2605	1-216-347-11	METAL OXIDE 0.68	5% 1W F	* 8-933-399-00 N BOARD, COMPLETE *****			
R2607	1-216-349-00	METAL OXIDE 1	5% 1W F	<CAPACITOR>			
R2608	1-216-347-11	METAL OXIDE 0.68	5% 1W F	C001	1-163-009-11	CERAMIC CHIP 0.001μF	10% 50V
R2609	1-216-349-00	METAL OXIDE 1	5% 1W F	C002	1-163-009-11	CERAMIC CHIP 0.001μF	10% 50V
R2610	1-216-347-11	METAL OXIDE 0.68	5% 1W F	C003	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R2611	1-216-049-91	RES,CHIP 1K	5% 1/10W	C005	1-163-255-91	CERAMIC CHIP 150pF	5% 50V
R2612	1-216-049-91	RES,CHIP 1K	5% 1/10W	C006	1-163-255-91	CERAMIC CHIP 22pF	5% 50V
R2613	1-216-049-91	RES,CHIP 1K	5% 1/10W	C007	1-163-235-11	CERAMIC CHIP 22pF	5% 50V
R2614	1-216-049-91	RES,CHIP 1K	5% 1/10W	C008	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R2618	1-216-073-00	RES,CHIP 10K	5% 1/10W	C009	1-115-339-11	CERAMIC CHIP 0.1μF	10% 50V
R2619	1-216-073-00	RES,CHIP 10K	5% 1/10W	C010	1-126-967-11	ELECT 47μF	20% 50V
R2620	1-216-073-00	RES,CHIP 10K	5% 1/10W	C011	1-115-339-11	CERAMIC CHIP 0.1μF	10% 50V
R2621	1-216-073-00	RES,CHIP 10K	5% 1/10W	C012	1-126-967-11	ELECT 47μF	20% 50V
R2622	1-216-049-91	RES,CHIP 1K	5% 1/10W	C013	1-126-965-11	ELECT 22μF	20% 50V
R2901	1-216-013-00	RES,CHIP 33	5% 1/10W	C014	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R2902	1-216-057-00	RES,CHIP 2.2K	5% 1/10W	C015	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R2903	1-216-121-91	RES,CHIP 1M	5% 1/10W	C016	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R2904	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	C017	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R2905	1-216-073-00	RES,CHIP 10K	5% 1/10W	C018	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R2906	1-216-022-00	RES,CHIP 75	5% 1/10W	C019	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R2907	1-216-039-00	RES,CHIP 390	5% 1/10W	C020	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R2908	1-216-073-00	RES,CHIP 10K	5% 1/10W	C021	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R2909	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	C022	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R2915	1-216-053-00	RES,CHIP 1.5K	5% 1/10W	C023	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R2916	1-216-077-91	RES,CHIP 15K	5% 1/10W	C024	1-164-161-11	CERAMIC CHIP 0.0022μF	10% 50V
R2919	1-216-077-91	RES,CHIP 15K	5% 1/10W	C025	1-163-009-11	CERAMIC CHIP 0.001μF	10% 50V
R2920	1-216-077-91	RES,CHIP 15K	5% 1/10W	C026	1-104-665-11	ELECT 100μF	20% 25V
R2923	1-216-077-91	RES,CHIP 15K	5% 1/10W	C027	1-115-339-11	CERAMIC CHIP 0.1μF	10% 50V
R2924	1-216-077-91	RES,CHIP 15K	5% 1/10W	C028	1-163-220-11	CERAMIC CHIP 3pF	0.25pF 50V
R2925	1-216-077-91	RES,CHIP 15K	5% 1/10W	C029	1-163-241-11	CERAMIC CHIP 39pF	5% 50V
R2926	1-216-077-91	RES,CHIP 15K	5% 1/10W	C031	1-126-964-11	ELECT 10μF	20% 50V
R2927	1-216-013-00	RES,CHIP 33	5% 1/10W	C033	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R2928	1-216-013-00	RES,CHIP 33	5% 1/10W	C036	1-163-037-11	CERAMIC CHIP 0.022μF	10% 50V
R2930	1-216-009-91	RES,CHIP 22	5% 1/10W	C037	1-126-964-11	ELECT 10μF	20% 50V
R2931	1-216-009-91	RES,CHIP 22	5% 1/10W	C038	1-126-964-11	ELECT 10μF	20% 50V
R2932	1-216-077-91	RES,CHIP 15K	5% 1/10W	C039	1-126-964-11	ELECT 10μF	20% 50V
R2933	1-216-013-00	RES,CHIP 33	5% 1/10W	C040	1-126-964-11	ELECT 10μF	20% 50V
R2934	1-216-013-00	RES,CHIP 33	5% 1/10W	C041	1-126-964-11	ELECT 10μF	20% 50V
R2935	1-216-013-00	RES,CHIP 33	5% 1/10W	C042	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R2941	1-216-013-00	RES,CHIP 33	5% 1/10W	C043	1-126-965-11	ELECT 22μF	20% 50V
R2942	1-216-013-00	RES,CHIP 33	5% 1/10W	C044	1-163-037-11	CERAMIC CHIP 0.022μF	10% 50V
<CRYSTAL>				C045	1-163-037-11	CERAMIC CHIP 0.022μF	10% 50V
X2901	1-767-925-21	VIBRATOR, CRYSTAL		C046	1-163-037-11	CERAMIC CHIP 0.022μF	10% 50V
*****				C047	1-163-037-11	CERAMIC CHIP 0.022μF	10% 50V
				C048	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
				C049	1-126-964-11	ELECT 10μF	20% 50V
				C050	1-126-964-11	ELECT 10μF	20% 50V
				C051	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
				C052	1-126-933-11	ELECT 100μF	20% 16V
				C053	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
				C054	1-115-339-11	CERAMIC CHIP 0.1μF	10% 50V
				C055	1-104-664-11	ELECT 47μF	20% 25V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C056	1-126-965-11	ELECT 22μF	20% 50V	C5205	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C057	1-126-964-11	ELECT 10μF	20% 50V	C5206	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C058	1-164-690-91	CERAMIC CHIP 0.0022μF	5% 50V	C5301	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C059	1-126-964-11	ELECT 10μF	20% 50V	C5303	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C061	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V				
C062	1-126-925-11	ELECT 470μF	20% 10V	C5304	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C063	1-164-690-91	CERAMIC CHIP 0.0022μF	5% 50V	C5305	1-104-664-11	ELECT 47μF	20% 25V
C064	1-115-419-11	CERAMIC CHIP 3300pF	5% 25V	C5306	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C065	1-126-960-11	ELECT 1μF	20% 50V	C5308	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C066	1-164-690-91	CERAMIC CHIP 0.0022μF	5% 50V	C5310	1-104-664-11	ELECT 47μF	20% 25V
C067	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V				
C068	1-136-169-00	FILM 0.22μF	5% 50V	C5401	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C069	1-115-339-11	CERAMIC CHIP 0.1μF	10% 50V	C5403	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C070	1-126-767-11	ELECT 1000μF	20% 16V	C5404	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C071	1-163-007-11	CERAMIC CHIP 680pF	10% 50V	C5406	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C072	1-126-942-61	ELECT 1000μF	20% 25V	C5408	1-163-005-11	CERAMIC CHIP 470pF	10% 50V
C073	1-115-339-11	CERAMIC CHIP 0.1μF	10% 50V				
C074	1-163-137-00	CERAMIC CHIP 680pF	5% 50V	C5409	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C075	1-163-251-11	CERAMIC CHIP 100pF	5% 50V	C5413	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C077	1-115-339-11	CERAMIC CHIP 0.1μF	10% 50V	C5501	1-126-967-11	ELECT 47μF	20% 50V
C078	1-136-169-00	FILM 0.22μF	5% 50V	C5602	1-115-339-11	CERAMIC CHIP 0.1μF	10% 50V
C079	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C5606	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C080	1-126-967-11	ELECT 47μF	20% 50V				
C082	1-104-664-11	ELECT 47μF	20% 25V	C5607	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C083	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V				
C084	1-126-964-11	ELECT 10μF	20% 50V	<CONNECTOR>			
C085	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	CN001	1-784-500-11	CONNECTOR, FFC/FPC 21P	
C086	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	CN002*	1-564-511-11	PLUG, CONNECTOR 8P	
C087	1-126-964-11	ELECT 10μF	20% 50V	CN004	1-564-506-11	PLUG, CONNECTOR 3P	
C089	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	CN007*	1-564-512-11	PLUG, CONNECTOR 9P	
C090	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	CN010	1-784-504-11	CONNECTOR, FFC 25P	
C091	1-126-933-11	ELECT 100μF	20% 16V				
C094	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	CN011	1-784-504-11	CONNECTOR, FFC 25P	
C095	1-117-722-11	ELECT 2200μF	20% 10V	CN5001*	1-564-509-11	PLUG, CONNECTOR 6P	
C096	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	CN5002*	1-564-511-11	PLUG, CONNECTOR 8P	
C097	1-126-964-11	ELECT 10μF	20% 50V	CN5003*	1-564-505-11	PLUG, CONNECTOR 2P	
C098	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V				
C099	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	<DIODE>			
C1003	1-104-664-11	ELECT 47μF	20% 25V	D001	8-719-062-51	DIODE 1PS226-115	
C1004	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	D002	8-719-062-51	DIODE 1PS226-115	
C1005	1-163-005-11	CERAMIC CHIP 470pF	10% 50V	D003	8-719-062-51	DIODE 1PS226-115	
C1006	1-164-161-11	CERAMIC CHIP 0.0022μF	10% 50V	D004	8-719-062-51	DIODE 1PS226-115	
C1007	1-115-339-11	CERAMIC CHIP 0.1μF	10% 50V	D005	8-719-109-89	ZENER DIODE RD5.6ESB2	
C5002	1-126-964-11	ELECT 10μF	20% 50V	D006	8-719-109-89	ZENER DIODE RD5.6ESB2	
C5003	1-126-933-11	ELECT 100μF	20% 16V	D007	8-719-109-89	ZENER DIODE RD5.6ESB2	
C5004	1-104-664-11	ELECT 47μF	20% 25V	D008	8-719-109-89	ZENER DIODE RD5.6ESB2	
C5005	1-104-664-11	ELECT 47μF	20% 25V	D009	8-719-109-89	ZENER DIODE RD5.6ESB2	
C5008	1-104-664-11	ELECT 47μF	20% 25V	D010	8-719-109-89	ZENER DIODE RD5.6ESB2	
C5009	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	D011	8-719-109-89	ZENER DIODE RD5.6ESB2	
C5101	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	D012	8-719-109-89	ZENER DIODE RD5.6ESB2	
C5103	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	D013	8-719-110-17	ZENER DIODE RD10ESB2	
C5105	1-104-664-11	ELECT 47μF	20% 25V	D014	8-719-801-78	DIODE 1SS184	
C5106	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	D015	8-719-801-78	DIODE 1SS184	
C5108	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	D016	8-719-109-89	ZENER DIODE RD5.6ESB2	
C5110	1-104-664-11	ELECT 47μF	20% 25V	D017	8-719-109-89	ZENER DIODE RD5.6ESB2	
C5203	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	D018	8-719-109-89	ZENER DIODE RD5.6ESB2	
				D019	8-719-062-51	DIODE 1PS226-115	
				D020	8-719-988-61	DIODE 1SS355TE-17	
				D021	8-719-988-61	DIODE 1SS355TE-17	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D022	8-719-801-78	DIODE 1SS184		Q005	8-729-033-26	TRANSISTOR DTA114GKAT146	
D023	8-719-801-78	DIODE 1SS184		Q006	8-729-027-49	TRANSISTOR DTC123EKA-T146	
D024	8-719-801-78	DIODE 1SS184		Q007	8-729-901-00	TRANSISTOR DTC124EK	
D025	8-719-062-51	DIODE 1PS226-115		Q008	8-729-033-25	TRANSISTOR DTC114GKA	
D026	8-719-062-51	DIODE 1PS226-115		Q010	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
D027	8-719-988-61	DIODE 1SS355TE-17		Q011	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
D028	8-719-988-61	DIODE 1SS355TE-17		Q012	8-729-901-00	TRANSISTOR DTC124EK	
D029	8-719-109-85	ZENER DIODE RD5.1ESB2					
D036	8-719-109-89	ZENER DIODE RD5.6ESB2					
D038	8-719-045-99	ZENER DIODE RD2.2M-T1					
		<FERRITE BEAD>				<RESISTOR>	
FB001	1-410-397-21	FERRITE 1.1μH		R003	1-216-025-91	RES,CHIP 100 5% 1/10W	
FB002	1-410-397-21	FERRITE 1.1μH		R004	1-216-025-91	RES,CHIP 100 5% 1/10W	
FB003	1-410-397-21	FERRITE 1.1μH		R005	1-216-025-91	RES,CHIP 100 5% 1/10W	
FB5101	1-412-911-11	FERRITE 1.1μH		R006	1-216-025-91	RES,CHIP 100 5% 1/10W	
FB5103	1-412-911-11	FERRITE 1.1μH		R007	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
FB5201	1-412-911-11	FERRITE 1.1μH		R008	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
FB5301	1-412-911-11	FERRITE 1.1μH		R009	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
FB5303	1-412-911-11	FERRITE 1.1μH		R010	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
FB5401	1-412-911-11	FERRITE 1.1μH		R011	1-249-389-11	CARBON 4.7 5% 1/4W F	
FB5403	1-412-911-11	FERRITE 1.1μH		R012	1-216-017-91	RES,CHIP 47 5% 1/10W	
FB5601	1-412-911-11	FERRITE 1.1μH		R013	1-216-017-91	RES,CHIP 47 5% 1/10W	
		<SENSOR>		R014	1-216-049-91	RES,CHIP 1K 5% 1/10W	
GS5001	1-418-473-11	SENSOR UNIT, GEOMAGNETIC		R015	1-249-389-11	CARBON 4.7 5% 1/4W F	
		<IC>		R016	1-216-017-91	RES,CHIP 47 5% 1/10W	
IC001	8-759-650-78	IC CXD8744Q-0005		R017	1-216-017-91	RES,CHIP 47 5% 1/10W	
IC002	8-759-162-80	IC MM1170BFB		R018	1-216-049-91	RES,CHIP 1K 5% 1/10W	
IC003	8-759-527-77	IC M24C16-MN6T		R019	1-216-025-91	RES,CHIP 100 5% 1/10W	
IC004	8-759-491-55	IC TC74VHCT74AFT (EL)		R020	1-216-025-91	RES,CHIP 100 5% 1/10W	
IC005	8-759-491-55	IC TC74VHCT74AFT (EL)		R021	1-216-025-91	RES,CHIP 100 5% 1/10W	
IC006	8-759-700-78	IC NJM082M		R022	1-216-025-91	RES,CHIP 100 5% 1/10W	
IC010	8-759-585-70	IC LA7865M-TLM		R023	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
IC011	8-759-442-20	IC 24LC21AT/SN		R024	1-216-025-91	RES,CHIP 100 5% 1/10W	
IC012	8-759-442-20	IC 24LC21AT/SN		R025	1-216-025-91	RES,CHIP 100 5% 1/10W	
IC5101	8-759-822-07	IC LA6515		R026	1-216-025-91	RES,CHIP 100 5% 1/10W	
IC5201	8-759-822-07	IC LA6515		R029	1-216-073-00	RES,CHIP 10K 5% 1/10W	
IC5301	8-759-822-07	IC LA6515		R030	1-216-049-91	RES,CHIP 1K 5% 1/10W	
IC5401	8-759-822-07	IC LA6515		R031	1-216-669-11	METAL CHIP 5.6K 0.50% 1/10W	
		<COIL>		R032	1-216-665-11	METAL CHIP 3.9K 0.50% 1/10W	
L002	1-406-665-11	COIL, CHOKE 100μH		R034	1-216-049-91	RES,CHIP 1K 5% 1/10W	
L003	1-406-671-11	COIL, CHOKE 1mH		R035	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
		<TRANSISTOR>		R036	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W	
Q001	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R037	1-216-073-00	RES,CHIP 10K 5% 1/10W	
Q002	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R039	1-216-025-91	RES,CHIP 100 5% 1/10W	
Q003	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R040	1-216-025-91	RES,CHIP 100 5% 1/10W	
Q004	8-729-028-83	TRANSISTOR DTA124EUA-T106		R041	1-216-025-91	RES,CHIP 100 5% 1/10W	
				R042	1-216-073-00	RES,CHIP 10K 5% 1/10W	
				R043	1-216-049-91	RES,CHIP 1K 5% 1/10W	
				R044	1-216-657-11	METAL CHIP 1.8K 0.50% 1/10W	
				R045	1-216-049-91	RES,CHIP 1K 5% 1/10W	
				R047	1-216-049-91	RES,CHIP 1K 5% 1/10W	
				R048	1-216-049-91	RES,CHIP 1K 5% 1/10W	
				R049	1-216-073-00	RES,CHIP 10K 5% 1/10W	
				R050	1-216-089-91	RES,CHIP 47K 5% 1/10W	
				R051	1-216-077-91	RES,CHIP 15K 5% 1/10W	
				R052	1-216-077-91	RES,CHIP 15K 5% 1/10W	



REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
R053	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R1022	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R054	1-216-077-91	RES,CHIP	15K	5%	1/10W	R1023	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R055	1-216-077-91	RES,CHIP	15K	5%	1/10W	R1024	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R056	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1025	1-216-025-91	RES,CHIP	100	5%	1/10W
R057	1-216-073-00	RES,CHIP	10K	5%	1/10W						
						R1026	1-216-109-00	RES,CHIP	330K	5%	1/10W
R058	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R1027	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R059	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R1028	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R060	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R1029	1-216-025-91	RES,CHIP	100	5%	1/10W
R061	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1030	1-216-025-91	RES,CHIP	100	5%	1/10W
R062	1-216-613-11	METAL CHIP	27	0.50%	1/10W						
						R1031	1-216-025-91	RES,CHIP	100	5%	1/10W
R063	1-216-613-11	METAL CHIP	27	0.50%	1/10W	R1032	1-216-025-91	RES,CHIP	100	5%	1/10W
R064	1-216-613-11	METAL CHIP	27	0.50%	1/10W	R1033	1-216-025-91	RES,CHIP	100	5%	1/10W
R066	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1034	1-216-025-91	RES,CHIP	100	5%	1/10W
R067	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1035	1-216-025-91	RES,CHIP	100	5%	1/10W
R075	1-215-407-00	METAL	270	1%	1/4W						
						R1036	1-216-025-91	RES,CHIP	100	5%	1/10W
R076	1-215-407-00	METAL	270	1%	1/4W	R1037	1-216-025-91	RES,CHIP	100	5%	1/10W
R077	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1038	1-216-025-91	RES,CHIP	100	5%	1/10W
R078	1-216-121-91	RES,CHIP	1M	5%	1/10W	R1039	1-216-025-91	RES,CHIP	100	5%	1/10W
R079	1-216-295-91	SHORT	0			R1040	1-216-025-91	RES,CHIP	100	5%	1/10W
R080	1-216-295-91	SHORT	0								
						R1041	1-216-025-91	RES,CHIP	100	5%	1/10W
R081	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1042	1-216-025-91	RES,CHIP	100	5%	1/10W
R082	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1043	1-216-025-91	RES,CHIP	100	5%	1/10W
R084	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1044	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R085	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1045	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R086	1-216-049-91	RES,CHIP	1K	5%	1/10W						
						R1047	1-216-073-00	RES,CHIP	10K	5%	1/10W
R090	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1049	1-216-073-00	RES,CHIP	10K	5%	1/10W
R091	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1050	1-216-073-00	RES,CHIP	10K	5%	1/10W
R092	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1051	1-216-097-91	RES,CHIP	100K	5%	1/10W
R093	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1052	1-216-073-00	RES,CHIP	10K	5%	1/10W
R094	1-216-049-91	RES,CHIP	1K	5%	1/10W						
						R1053	1-216-049-91	RES,CHIP	1K	5%	1/10W
R095	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1054	1-216-073-00	RES,CHIP	10K	5%	1/10W
R096	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R1055	1-216-049-91	RES,CHIP	1K	5%	1/10W
R097	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1056	1-216-073-00	RES,CHIP	10K	5%	1/10W
R098	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1057	1-216-049-91	RES,CHIP	1K	5%	1/10W
R099	1-216-049-91	RES,CHIP	1K	5%	1/10W						
						R1058	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1001	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1059	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1002	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1061	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1003	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1062	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1004	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1063	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1005	1-216-049-91	RES,CHIP	1K	5%	1/10W						
						R1064	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1006	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1065	1-216-125-00	RES,CHIP	1.5M	5%	1/10W
R1007	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1066	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1008	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R1067	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1009	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1068	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1010	1-216-049-91	RES,CHIP	1K	5%	1/10W						
						R1069	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1011	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1070	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1012	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R1071	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1013	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R5003	1-216-295-91	SHORT	0		
R1014	1-216-049-91	RES,CHIP	1K	5%	1/10W	R5005	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1015	1-216-049-91	RES,CHIP	1K	5%	1/10W						
						R5006	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1016	1-216-049-91	RES,CHIP	1K	5%	1/10W	R5007	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1017	1-216-049-91	RES,CHIP	1K	5%	1/10W	R5010	1-216-295-91	SHORT	0		
R1018	1-216-049-91	RES,CHIP	1K	5%	1/10W	R5011	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1019	1-216-049-91	RES,CHIP	1K	5%	1/10W	R5015	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1020	1-216-065-91	RES,CHIP	4.7K	5%	1/10W						
						R5108	1-216-308-00	RES,CHIP	4.7	5%	1/10W
R1021	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R5109	1-216-308-00	RES,CHIP	4.7	5%	1/10W



REF.NO.	PART NO.	DESCRIPTION		REMARK
R5110	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5113	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5115	1-215-859-00	METAL OXIDE	22	5% 1W F
R5116	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5119	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5122	1-215-859-00	METAL OXIDE	22	5% 1W F
R5205	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5206	1-215-859-00	METAL OXIDE	22	5% 1W F
R5207	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5208	1-216-069-00	RES,CHIP	6.8K	5% 1/10W
R5209	1-216-308-00	RES,CHIP	4.7	5% 1/10W
R5308	1-216-308-00	RES,CHIP	4.7	5% 1/10W
R5309	1-216-308-00	RES,CHIP	4.7	5% 1/10W
R5310	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5313	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5315	1-215-859-00	METAL OXIDE	22	5% 1W F
R5316	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5319	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5322	1-215-859-00	METAL OXIDE	22	5% 1W F
R5406	1-216-083-00	RES,CHIP	27K	5% 1/10W
R5407	1-216-085-00	RES,CHIP	33K	5% 1/10W
R5408	1-216-308-00	RES,CHIP	4.7	5% 1/10W
R5409	1-216-308-00	RES,CHIP	4.7	5% 1/10W
R5410	1-216-081-00	RES,CHIP	22K	5% 1/10W
R5413	1-216-097-91	RES,CHIP	100K	5% 1/10W
R5415	1-215-887-00	METAL OXIDE	150	5% 2W F
R5416	1-216-081-00	RES,CHIP	22K	5% 1/10W
R5419	1-216-097-91	RES,CHIP	100K	5% 1/10W
R5422	1-216-451-11	METAL OXIDE	120	5% 2W F
R5502	1-216-081-00	RES,CHIP	22K	5% 1/10W
R5503	1-216-081-00	RES,CHIP	22K	5% 1/10W
R5504	1-216-089-91	RES,CHIP	47K	5% 1/10W
R5505	1-216-089-91	RES,CHIP	47K	5% 1/10W
R5506	1-216-069-00	RES,CHIP	6.8K	5% 1/10W
R5507	1-249-382-11	CARBON	1.2	5% 1/4W F
R5508	1-249-382-11	CARBON	1.2	5% 1/4W F
R5509	1-249-382-11	CARBON	1.2	5% 1/4W F
R5510	1-249-382-11	CARBON	1.2	5% 1/4W F
R5602	1-216-081-00	RES,CHIP	22K	5% 1/10W
R5603	1-216-077-91	RES,CHIP	15K	5% 1/10W
R5604	1-216-081-00	RES,CHIP	22K	5% 1/10W
R5605	1-216-097-91	RES,CHIP	100K	5% 1/10W
R5607	1-215-862-11	METAL OXIDE	68	5% 1W F
R5610	1-216-308-00	RES,CHIP	4.7	5% 1/10W

<CRYSTAL>

X001 1-760-682-21 VIBRATOR, CRYSTAL (24.756MHz)

